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PENNSYLVANIA STATE MUSEUM

DIVISION OF EDUCATION

CATALOGUE

OF

LANTERN SLIDES

HARRISBURG:
C. E. AUGHINBAUGH, PRINTER TO THE STATE OF PENNSYLVANIA
1909

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1909

CATALOGUE OF LANTERN SLIDES

REGULATIONS

Lantern slides are loaned to illustrate courses of study in various subjects. The slides are of standard size, 3¼x4 inches and, so far as practicable, are colored. Almost every subject admitting of illustration will be represented, including reproductions of natural scenery, historic places, famous buildings, manners and customs of peoples, industries, scientific specimens, physical phenomena, sculpture, paintings, literature and the classics. The scope of the work will be constantly broadened and new illustrations will be added as rapidly as possible. There are in the collection several copies of nearly every slide catalogued, so no difficulty is anticipated in promptly filling every requisition received. Requisitions for illustrations not listed in the catalogues will be given careful consideration and filled if practicable.

All schools, institutions and organizations in the State of Pennsylvania are entitled to borrow slides for educational purposes.

APPLICATION. In ordering, use the application blanks furnished by the Division of Education of the Museum, which can be obtained upon request. All applications should reach the Division at least one week before the slides are desired, which will allow time to prepare or procure those not in stock.

TIME LIMIT. Slides are loaned for such length of time as borrower elects within reasonable limits. If it becomes necessary to curtail time limit on account of a special demand, borrowers will be notified when application is filed. State in application exact length of time slides are to be retained and return them before date of expiration. If extension of time is desired it can be secured *on application* if slides have not been promised elsewhere.

FEES. The fee for each shipment (for two weeks or less) is one dollar ($1.00), to cover expressage.

All fees are payable strictly in advance, and must accompany application. Make checks and money orders payable to the Director of Museum.

255233

Any over-payment will be promptly refunded.

TRANSPORTATION. Transportation in both directions will be paid by the State. Therefore there is no expense to the borrower, save loss or breakage, beyond the prescribed fee.

All shipments will be sent by express, therefore in application give name of nearest express office

LOSS or BREAKAGE. Borrowers will be held responsible for any loss or breakage of slides while in their possession, the charge for which will be equitably determined by the Department.

RECEIVING. Each shipment will be accompanied by a statement of the number of slides forwarded and a notice will be mailed advising borrower of date of shipment. Any delay in prompt arrival of shipment should be reported at once. The box should be opened immediately upon arrival, and the contents examined and compared with the statement. Any breakage or any discrepancies between the statement and the contents of box should be reported upon the postal receipt provided, which should be promptly mailed. This precaution will obviate any liability on the part of the borrower for damage in transit.

RETURNING. When slides are returned, pack them in the same box and in the same manner as received, using special care to place the paper between all slides. Borrowers will be held responsible for breakage resulting from careless or improper packing on their part.

SPECIAL NOTICE.

Borrowers must *not* under any circumstances:

Use slides for other than educational purposes;

Use slides upon any occasion at which an admission fee is charged or a collection of any kind is taken;

Rent or loan slides to others.

A violation of the above prohibition will render borrower liable to curtailment of all privileges.

GEOGRAPHY AND TRAVEL.

CANADA.

PG Db41, ____ Alberta. Among the ice peaks of Illicillewaet glacier.
PG Db4, ____ " Fathomless crevasse, " "
D12 A11, ____ " Trail to Fairview and Saddleback Mt., Lake Louise.
D12 A12, ____ " Looking Down Spray Valley.
D12 A121, ____ " Lake Louise.
ZM Bu, ____ " The Buffalo in his snow-bound home.
D11 MoA, ____ Mt. Sir Donald. British Columbia.
D11 MoA21, ____ " The Matterhorn of North American Alps.
D15 SjQ, ____ New Brunswick. Quiatchouan Falls. The laughing water of Longfellow's Evangeline.
D14 Z, ____ Quebec. Rock strata forming natural steps. Montmorency River.
PG Db8, ____ Wapta Glacier. British Columbia.
D1 Z, ____ A treacherous crevasse in Victoria glacier.
D11 Z, ____ Making way up a mountain of ice.
DI Z1, ____ Fishermen on Gaspe Coast.
D11 Z22, ____ Great snow shed on Canadian Pacific Railroad.
633.3 AB1, ____ Beet sugar industry. Beets stored in sheds.
633.3M AB, ____ " " Beet pulp and juice.
633.3M BB8, ____ " " By-product or pulp used for feeding stock.
633.3M BB, ____ " " Finished product ready for shipment.
633.2M FA111, ____ Linen industry. Hanks of linen thread in store room.
633.2M FA112, ____ " Winding bobbins.
633.2M FA113, ____ " Winding spools.
633.2M FA114, ____ " Unreeling spools to make warp.
633.2M FA211, ____ " Starching warp on "sizing" machine.
633.2M FA213, ____ " Making patterns for weaving looms.
633.2M FA212, ____ " Spinning linen fabric.
633.2M FB25, ____ " Putting rough linen through cropping machine.
633.2M FB9, ____ " Mangling the linen fabric.
633.2M FB251, ____ " Calendering and finishing.
633.2M FB252, ____ " Inspecting linen fabric.
633.2M FB253, ____ " Quantities of linen fabric ready for shipment.

____British Columbia. Reflections on Lake Louise.
____Alberta. Selkirk Mts. Sir Donald from Loop Valley.
____ " " Crevasse in Asulkan Glacier.
____Rocky Mts. Banff. Main chain of the Rocky Mts. from Bow River.
____Laggan. Great Mountains and Mirror Lake.
____Laggan. The Great Divide. Summit of the Rocky Mountains.
____Rocky Mts. Cascade Range and Devil's Lake.
____Selkirk Mts. Siwash Indians salmon fishing. Fraser River.
____ " Siwash Indians curing Salmon, Fraser River.
____ " Asulkan Glacier from the trail.
____ " Mt. Sir Donald and Illicillewaet Glacier from Summit of Mt. Abbott.
____Field. Mt. Burgess and Emerald Lake.
____ " Mount Burgess, Emerald Lake.
____Laggan. The Big Grade Kicking Horse Pass.
____ " Lake Agnes, Bee Hive and Victoria Mountains.
____Rocky Mts. Banff. Banff Hotel and Twin Peaks.
____Alberta. Bull's Head and Squaw in front of tepee.
____ " Indian Encampment.
____Laggan. Bechive and Mirror Lake.
____Selkirk Mts. Lilly Glacier from Loop Valley.
____Rocky Mts., Banff. The Hoodoos, Bow River and Mt. Rundle.
____Alberta, Silkirk Mts. Great Illicillewaet River and Glacier.
____Laggan. Lake Agnes, 8,000 feet above sea level.
____Selkirk Mts. Mt. Carroll from Rogers Pass.

GEOGRAPHY AND TRAVEL.—Continued.

CANADA—Continued.

----------	Alberta.	Selkirk Mts. Asulkan Glacier.
----------	"	Sarcee Reservation. Burial tepee of Little Calf and Weasel Head, with wife and child.
----------	Selkirk Mts.	Mts. Fox and Dawson and the Donkin Glacier.
----------	"	Mts. Dawson and Donkin and the Donkin Glacier.
----------	Montreal.	Lachine Rapids and Panorama from Mount Royal.
----------	Quebec.	Chateau de Frontenac and Quebec from Dufferin Terrace.
----------	Assiniboia.	Sheep ranching scene.
----------	"	Cattle herding.

UNITED STATES.

D61 Va, -------	Alabama.	Vance. Underground quarrying.
D61 Z, -------	"	Cordova. Sphenopteris pendulata.
D61 Z1, -------	"	Warrior River. Water following Squaw shoals.
D61 Z11, -------	"	Thomas. Stripped surface of Knox dolomite.
D61 Z12, -------	"	Spheroidal weathering, sandstone.
D61 Z13, -------	"	Falls of Black creek.
D61 Z14, -------	"	Overthrust fault in shale.
D61 Z15, -------	"	Face of quarry in Knox dolomite.
633.2 CCa1, -----	"	Mobile. Typical cotton cart.
633.2 CC11, -----	"	Ox team with cotton cart.
D98 CjK, ------	Alaska.	Chilkoot pass. Bound for the Klondike.
D98 GIR, ------	"	Glacier bay. Reed inlet.
D98 GIZ, ------	"	" Steamer "Ancon" behind an iceberg
D98 SiK, ------	"	Sitka. Recent lava flows from crater, Kruzof Is.
D98 WrA, -----	"	Mount Wrangell.
D98 Z1, -------	"	White Horse. Dog express.
D98 Z11, -------	"	Dog team doing freighting.
D98 Z2, -------	"	Seldovia village, looking through rock cave.
D98 Z21, ------	"	Columbia glacier. Prince William sound.
D98 Z211, ------	"	Fold in Jurassic rocks, Alaskan range, Mead River.
ZB PjA, ------	"	Nest of the American Pipit.
ZF CoA, ------	"	Kodiak Islands. Twenty minutes' catch of cod.
D91 Gr, -------	Arizona.	Grand Canon from Grand view.
D91 Gr1, ------	"	Grand Canon. Wrecks of tempest and of time.
D91 Gr11, -----	"	Grand Canon. From Bright Angel hotel.
D91 Gr12, -----	"	Dendritic stalagmites in a limestone cave.
D91 Mo11, -----	"	Moki villages.
D91 Mo12, -----	"	Moki dolls.
D91 Na1, ------	"	Navajo reservation. Women weaving.
D91 Z21, -------	"	Navajo blanket weaving.
D91 Z2, -------	"	Blanket weaving by Hopi Indian.
D91 Z, -------	"	Navajo papoose at home.
D91 PeL, ------	"	Petrified forest. Log bridge.
D91 PeZ, ------	"	"
D91 ----------	"	Grand Canon. "The sinuous Colorado."
D91 Mp, -------	California.	Mount Whitney.
D91 Re, -------	"	Redondo Beach. Sea gulls on beach.
D91 SfB, ------	"	San Francisco. Union street rent by earth quake. '06.
D91 SfB1, ------	"	" Howard street after earthquake '06.
D91 SfY, ------	"	" Cliff House and seal rocks by moonlight.
D91 SvZ, ------	"	Summerland. Pumping oil from the sea.
D91 YoM, ------	"	Yosemite valley. Mirror lake.
D91 YoV, ------	"	" " Vernal falls and rapids.
ZB PiZ, ------	"	Los Angeles. Pigeon farm.
BT P, -------	"	Pasadena. Date palms.
634.3 OA0, ------	"	San Gabriel Valley. Ten thousand acres of orange groves.
634.3 OA11, -----	"	" " Only a few miles from oranges to snow.
634.3 OB12, -----	"	Riverside. Picking oranges.
	"	" Lemon trees.
633.7 ----------	"	Yuba City. Hauling grain to Farmer's Union warehouse.
BT PiZ, ------	"	Surface fire in pine forest.
637 DB2, ------	"	Wrapping butter for market.
ZB Os1, ------	"	Baby ostriches. Just out

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

	California.	Woodmen cutting sequota trees.
	"	Big tree logging in the Sierra Nevadas.
D94 Z16, -------	"	Main fault between Pt. Reyes and Olema. 1906.
D94 Z161, ------	"	Shore lines, American River, Folsom.
D94 Z2, --------	"	Edge of lava flow. Lassen Peak.
D94 Z21, -------	"	Slab of Astrodopsis tumidus.
D94 Z211, ------	"	Lava field near Lassen Peak.
D94 Z212, ------	"	Glacial pot-hole near Tuolumne meadows.
D94 Z213, ------	"	Tailings on Spring creek. 1905.
D94 Z215, ------	"	Crooked creek near Long valley dam.
D94 Z216, ------	"	Folded Cambrian strata.
D94 Z217, ------	"	Detrital slope. Crater in Clayton valley.
D88 ArR2, ----	Colorado.	Royal Gorge. Arkansaw River. Famous hanging bridge.
D88 B1, --------	"	Black Canon.
D88 CoM, ------	"	Colorado Springs. Monument park.
D88 DeM, ------	"	Dead Horse Canon. Meteor falls.
D88 Fi, --------	"	Fish creek. Showing outcrops.
D88 Ga, -------	"	Garden of the gods. Splendid in its majesty.
D88 GaB, ------	"	Balanced rock.
D88 Mfn, ------	"	Mesa Verde. Navajo Canon.
D88 MfP, ------	"	" Cliff palace.
D88 Z2, --------	"	San Luis valley. Lone Tree well.
D88 Z21, -------	"	" " Storm on Cat creek.
D88 Z22, -------	"	White rock showing polygonal jointing near Meeker.
D88 Z24, -------		Arch under Citadel Rock.
D88 Z25, -------	"	Landslide topography on slope between Corkscrew Gulch and Red Mountain.
D46 HaC, ----	Connecticut.	Hartford. Sheep in Keeney park.
BT Mb2, ------	"	Hockanum. Avenue of maples.
D53 WaA2, ----	Dist. of Columbia.	Washington. Gardens in front of Agricultural bureau.
D53 WaE38, ---	"	" Garfield monument.
D53 WaE8, ----	"	" Washington monument, Sherman park.
D53 WaG5, ----	"	" Capitol. Inauguration of President Roosevelt, March 4th, '05.
D53 WaG51, ---	"	" Capitol. Inauguration of President Roosevelt, March 4th, '05.
D53 WaG52, ---	"	" Capitol. Ceiling of dome.
D53 WaG54, ---	"	" West Point cadets marching before capitol.
D53 WaG65, ---	"	" Capitol. Senate bronze doors. Death of Warren.
D53 WaG66, ---	"	" Capitol. Senate bronze doors. Gallantry of Hamilton.
D53 WaG67, ---	"	" Capitol. Senate bronze doors. Hessian soldier in death struggle with American.
D53 WaG68, ---	"	" Capitol. Battle of Monmouth.
D53 WaG69, ---	"	" Capitol. Painting, "Westward Ho." (Leutz.)
D53 WaG691, --	"	" Capitol. Painting, "Perry's victory."
D53 WaG692, --	"	" Capitol. Painting, "Monitor and Merrimac."
D53 WaG71, ---	"	" Capitol. Marble room.
D53 WaG75, ---	"	" Library of Congress. Grand fountain.
D53 WaL1, ----	"	" Library of Congress.
D53 WaL11, ---	"	" Library of Congress. Entrance hall.
D53 WaL12, ---	"	" Library of Congress. Grand staircase.
D53 WaL91, ---	"	" Library of Congress. Painting, "Oral Tradition." (Alexander.)

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

D53 WaL911, .. Dist. of Columbia. Washington. Library of Congress. Painting, "The Cairn." (Alexander.)
D53 WaL912, .. " " Library of Congress. Painting, "Picture writing." (Alexander.)
D53 WaL913, .. " " Library of Congress. Painting, "Egyptian hieroglyphics." (Alexander.)
D53 WaL914, .. " " Library of Congress. Painting, "Manuscript book." (Alexander.)
D53 WaL915, .. " " Library of Congress. Painting, "The printing press." (Alexander.)
D53 WaL92, ... " " Library of Congress. Painting, "Law." (Dielman.)
D53 WaL931, .. " " Library of Congress. Painting, "Lyric poetry." (Walker.)
D53 WaL932, .. " " Library of Congress. Painting, "Religion." (Pearce.)
5D3 WaL933, .. " " Library of Congress. Painting, "Labor." (Pearce.)
D53 WaL94, ... " " Library of Congress. Painting, "Ganymede." (Walker.)
D53 WaL941, .. " " Library of Congress. Painting, "History, mythology, tradition." (Dielman.)
D53 WaZ, ... " " Delta at base of freshly graded terrace.
D53 WaZI, ... " " Great falls of the Potomac.
D53 WaZI1, ... " " " " "
BT GI, ... " " Ginkgo trees.
BZ OsI1, ... Florida. Jacksonville. Trotting ostrich.
" " Plumed ostrich in plucking pen, ostrich farm.
633.5 CoAI1, ... " Lake Worth. Cocoanut grove.
634.3 BA2I, ... " " " Banana tree.
D59 SaI1, ... " St. Augustine. Oldest house in the city.
" St. Augustine. Spanish gateway in city wall.
D59 Su, ... " Suwanee River.
633.5 CoA, ... " Cocoanut palm in the white sand of Florida.
634.3 OBI1, ... " Picking oranges.
634.3 PA1, ... " Pineapple growing.
634.3 PB, ... " Harvesting pineapples.
633.2M Z, ... " Cotton mills.
633.2M CA31, ... Georgia. Augusta. Carding room in cotton mills.
633.2M CA32, ... " " Carding, cotton mills.
D58 SaZ1, ... " Savannah. Greatest resin market in the world.
633.1M Rb1, ... " Large stone for hulling rice.
633.2 CAg, ... " Plantation scene, "Cotton is king."
D96 SjA, ... Idaho. Shoshone falls.
D72 ZI, ... Indiana. Donaldson cave, entrance. Mitchell limestone.
PG EDd, ... " Dune park. Structure of a dune.
636.21 As, ... Illinois. Chicago. Removing pelts from sheep, packing house.
633 WCe, ... " " Loading steamer with wheat.
633 We3, ... " " Loading great whale-back ship at grain elevators.
636.2 C12, ... " " Lot of sleek steers, Union stock yards.
636.2 CI, ... " " Union stock yards.
636.2 CI1, ... " " " " "
636.1 C2, ... " " Swift's packing house. Thousands of hogs.
636.2 Ab, ... " " " " " Dropping hides.
636.21 Ab1, ... " " " " " Washing dressed beef.
636.21 Ah, ... " " " " " Scalding hogs.
636.21, Ah1, ... " " " " " Moving bench.
636.21 Ah11, ... " " " " " Splitting back bone.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

636.21 Ah12, ____ Illinois. Chicago. Swift's Packing House. Killing hogs.
636.21 Ah13, ____ " " " " " Cutting up hogs.
636.21 As1, ____ " " " " " Dressing lamb for market.
636.21 AsL1, ____ " " " " " Sheep going to slaughter pen.
636.21 Bh, ____ " " " " " Preparing hams for market.
636.21 Bh1, ____ " " " " " Cooler where thousands of hogs hang.
636.21 B2, ____ " " " " " Making link sausages.
636.21 B21, ____ " " " " " Sausage rockers.
636.21 B22, ____ " " " " " Sausage drying room.
636.21 B4, ____ " " " " Drawing off lard.
668.1 A2, ____ " " " " " Great Soap kettles.
668.1 B2, ____ " " " " " Huge cakes of wool soap.
735A S13L, ____ " " Lincoln monument, Lincoln Park.
" Genuine corn fed pork in prairie pasture.
D77 NoZ, ____ Iowa. Norway. Glaciated boulder.
IN SDB, ____ " Steel viaduct over Des Moines River, C. & N. W. R. R.
633.4 ToA1, ____ Kentucky. Lexington. Cultivating tobacco.
633.4M ToA1, ____ " Louisville. Tobacco market.
633.4M ToA, ____ " Tobacco warehouse.
633.4 ToB211, ____ " Cutting tobacco.
D69 Z, ____ " Contorted Cambrian limestone.
D63 NeZ, ____ Louisiana. New Orleans. On the sugar levee.
" " " Rolls of leather. Unloading steamer.
633.3M C, ____ " " " Unloading sugar cane at the mill.
633.3M CC11, ____ " " " Sugar levee. "Sweetest spot on earth."
633.2M CA42, ____ " A cotton compress.
D41 Z22, ____ Maine. Biddeford. Dike of granite in slate.
D41 Z21, ____ " Danforth. Kettle hole in esker.
D41 Z23, ____ " Freeport. Gravel pit.
D41 PoL, ____ " Portland. Longfellow's birthplace.
D41 Z1, ____ " Sullivan. Granite from quarry located near.
D41 FA, ____ " From Ames Knob across entrance to Fox Island thoroughfare.
D41 Z11, ____ " Water occurring in joint cracks in granite.
D41 Z2, ____ " Granite sheets, Taintor quarry.
D52 BaY, ____ Maryland. Baltimore. Ruxton station.
D51 BaZ, ____ " " Hedge to screen trolley tracks.
D52 Z1, ____ " Hancock. Antieline strata.
633 WA3, ____ " Onigara. Wheat field.
" Potomac River. Bringing in seine filled with shad.
" " " Hauling in seine.
633 Rb2, ____ " Harvesting rye with self binder.
D44 AmW, ____ Mass. Amesbury. Whittier's home.
BT E1, ____ " Belmont. Avenue of elms.
633 CB21, ____ " Berkshire Hills. Corn and pumpkins.
D44 BoC, ____ " Boston. Olmstead park.
" " Bunker hill monument.
" " Paul Revere house.
D44 BoP13, ____ " " " " " Living room.
" " " " " " "
D44 BoP14, ____ " " " " " Chamber.
D44 BoP15, ____ " " " " " "
" " " " " Kitchen.
D44 BoF, ____ " " Faneuil hall.
D44 BoO, ____ " " Old South meeting house.
D44 BoS, ____ " " Old state house.
D44 CbW, ____ " Cambridge. Washington elm.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

	Mass.	Cambridge.	Grave of Longfellow. Mt. Auburn.
	"	"	Old Craigie house.
DH Z,	"	Cape Cod.	Gardiner clay, showing faults and contacts.
DH CoEI,	"	Concord.	Battle ground. Monument.
	"	"	The minute man. Monument.
DH CoE,	"	"	Minute men.
BF WdS,	"	Easton.	Sweet-scented water lily.
	"	Elmwood.	Lowell's birthplace.
DH HbW,	"	Haverhill.	Whittier's birthplace.
DH SaH,	"	Salem.	Hawthorne's birthplace.
DH SaHH,	"	"	" home.
DH SuW,	"	Sudbury.	The Wayside Inn.
DH WG,	"	Wellesley.	Town hall.
BT PiW22,	"	"	Avenue of white pines.
ZF Co,	"	Drying cod fish.	
D71 Ma3,	Michigan.	Mackinac Island.	Sunset.
D71 SdS,	"	Sault Sainte Marie.	Gates to the "Soo" canal.
D71 SdSI,	"	Steamer leaving small dock, "Soo" canal.	
D71 SdSII,	"	In the "Soo" canal locks.	
636.3 B2,	"	Sheep shearing.	
IM IDBI,	Minnesota.	Duluth.	Aerial bridge.
D76	"	Minneapolis.	Minnehaha falls.
D76 No,	"	Northfield.	Flowing well belonging to Minn. Hemp Co.
IM IAI,	"	Mesabi range.	Scoop of steam shovel, Burt mine.
IM IAI2,	"	" "	Steam shovel at work, Burt mine.
IM ICI,	"	Two Harbors.	Ore cars.
IM ICII,	"	" "	Surface of ore docks.
IM IC12,	"	" "	Overlooking the ore docks.
IM IC128,	"	" "	Loading ship.
	"	Scouring logs.	
637 AAI,	"	Grooming and clipping cows.	
633M AM,	"	Huge flour mills where grain crops are made into food.	
D78 KaA,	Missouri.	Kansas City.	Deluged east bottoms, from Cliff drive.
D78 ZI,	"	New Madrid.	Gum and Cypress growth in earthquake area.
D86 Z,	Montana.	Stratified lightning, taken from moving train.	
D86 Z2,	"	Eroded carboniferous sandstones in cliff near Livingston.	
ZM Em,	"	Wild Elk.	
ZM Sh12,	"	Sheep on Montana plains.	
636.2 Cm,	Montana.	Shipping beef to Chicago market.	
636.2 B5,	Nebraska.	A trail herd watering.	
D93 Py,	Nevada.	Pyramid lake.	
D93 Py1,	"	" "	Tufa towers.
D93 ZI,	"	Winnemucca lake.	Tufa tower on shore.
D93 ZI2,	"	Volcanic rocks near Pahroe spring.	
D12	N. Hampshire.	Manchester.	Stark house.
D19 AtZ,	N. Jersey.	Atlantic City.	Wind and sea.
D19 CaZ,	"	Cape May.	Breakers.
ZB SwT,	"	Montclair.	Tree swallows on telegraph wires.
637 BC5,	"	Montclair.	Milk delivery.
D19 TrW,	"	Trenton.	Washington's crossing.
IN CBBI3,	"	Plainfield.	Storing coal.
D19 Z,	"	Oil train.	
D89 Z,	N. Mexico.	Cliff village and pictographs.	
D89 ZI,	"	White rock canon pictographs.	
D17	New York.	Albany.	Old Van Rensselaer house.
634.3 CBI,	"	Buffalo.	Picking and loading cantaloupes.
D17 BuB,	"	Buffalo.	Avenue of trees.
637 BA12,	"	East Aurora.	Heater which pumps milk.
637 DA2,	"	" "	Churn which churns 800 lbs. butter.
637 BA3,	"	" "	Cans of cream in vats of cold water.
637 BA4,	"	" "	Pasteurizer in creamery.
637 DA24,	"	" "	Working salt into butter.
637 EA2,	"	" "	Presses of cheese factory.
637 EA112,	"	" "	Vats in which milk is heated.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

637 EA1,	New York.	East Aurora.			Curds after the whey has been withdrawn.
637 EA11,	"	"	"		Curds blocked by hand and fed into grinding machine.
637 EA111,	"	"	"		Filling hoops with chopped curds.
637 EB12,	"	"	"		Curing room.
637 EC,	"	"	"		Loading cars with cheese for shipment.
637 EB211,	"	"	"		Hundreds of cheeses curing.
D47 Ge,	"	Genesee River.			Middle falls.
D47 HuH,	"	Hudson River.			Entrance to Highlands.
D47 ItU,	"	Ithica.			Cornell Hydraulic Laboratory, 1899.
D47 Li,	"	Little Falls.			Milker in operation.
637 BB1,	"	"	"		Bottling milk.
637 BB11,	"	"	"	"	"
D47 LpZ,	"	Long Island.			Erosion topography of Montauk drift, Friar's Head.
BT Tu,	"	"	"		Tulip trees at Westbury.
D47 NeA4,	"	New York City.			U. S. flagship Olympia and fleet in North River.
D47 NeC4,	"	"	"	"	Obelisk in Central Park.
D47 NeF6,	"	"	"	"	St. Patrick's cathedral, interior.
D47 NeG6,	"	"	"	"	Flatiron building.
D47 NeS4,	"	"	"	"	Stock exchange.
D47 NeZ,	"	"	"	"	The Lusitania.
D47 NeZ1,	"	"	"	"	Poster of "new line of industry," 1792.
726.6 An4,	"	"	"	"	St. Patrick's cathedral, interior.
	"	"	"	"	Castle garden, from Washington building.
751 L57W,	"	"	"	"	Metropolitan Museum. Painting, "Washington crossing the Delaware," (Leutz.)
754 B64h,	"	"	"	"	Metropolitan Museum. Painting, "Horse fair." (Bonheur).
ZM BeS1,	"	"	"	"	Zoo. Syrian bear.
ZM BeS11,	"	"	"	"	" Syrian bear cubs.
ZM BiA,	"	"	"	"	" Bison and calves.
ZM CaB,	"	"	"	"	" Bactrian camel.
ZM Ch,	"	"	"	"	" Chimpanzee.
ZM DeA,	"	"	"	"	" Axis deer.
ZM DeV3,	"	"	"	"	" Virginia deer.
ZM E1A,	"	"	"	"	" African elephant.
ZM E1A1,	"	"	"	"	" " "
ZM E11,	"	"	"	"	" Indian "
ZM ApG,	"	"	"	"	" Gibbon ape.
ZM ApP,	"	"	"	"	" Pig-tail ape.
ZM BeB,	"	"	"	"	" Black bear cubs.
ZM BeB1,	"	"	"	"	" Black bear.
ZM BeG,	"	"	"	"	" Silver-tipped grizzly bear
ZM BeK,	"	"	"	"	" Kadiak bear.
ZM BeK1,	"	"	"	"	" " "
ZM BeP,	"	"	"	"	" Polar bear.
ZM Em1,	"	"	"	"	" American elk.
ZM FoA,	"	"	"	"	" Arctic fox.
ZM FoR3,	"	"	"	"	" Red fox.
ZM Gi,	"	"	"	"	" Giraffe.
ZM Gi1,	"	"	"	"	" "
M GoM,	"	"	"	"	" Markhor goat.
ZM GoR,	"	"	"	"	" Rocky Mountain goat.
ZM GoR1,	"	"	"	"	" " " "
ZM Hi,	"	"	"	"	" Hippopotamus.
ZM JbL,	"	"	"	"	" Jaguar.
ZM LeL,	"	"	"	"	" Indian leopard.
M LeM,	"	"	"	"	" Manchurian leopard.
ZM LiB,	"	"	"	"	" Barbary lion.
ZM LyS,	"	"	"	"	" Spotted lynx.
ZM MoJ,	"	"	"	"	" Japanese red-faced monkey.
ZM MoS,	"	"	"	"	" White-throated Sapajou
ZM Mu,	"	"	"	"	" Musk ox.
ZM Or,	"	"	"	"	" Orang-ou-tang.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

ZM Pu, -----	New York.	New York City.	Zoo.	Puma.
ZM ShA, -----	"	"	"	"	"	Aoudad sheep.
ZM TiR, -----	"	"	"	"	"	Royal Bengal tiger.
ZM TiM, -----	"	"	"	"	"	Malay tiger.
ZM WnG1, ----	"	"	"	"	"	Grey wolf
ZM Mp, -----	"	"	"	"	"	Moose.
ZB Pd1, -----	"	"	"	"	"	Pea fowl.
ZB Pd11, -----	"	"	"	"	"	" "
ZB HeB1, -----	"	"	"	"	"	Blue heron.
ZB GuH1, ----	"	"	"	"	"	Herring gull.
ZM El, -----	"	"	"	"	Amer. Museum of Nat. History Elephant head
PG AC8, -----	"	"	"	"	Amer. Museum of Nat. History. Willamette meteorite found near Portland, Oregon.
PG AC1, -----	"	"	"	"	Amer. Museum of Nat. History. Gibeor meteorite.
PG AC11, ----	"	"	"	"	Amer. Museum of Nat. History. Ahnighito meteorite, found near Cape York, Greenland.
PG AC1, -----	"	"	"	"	Amer. Museum of Nat. History. Section of Ahnighito meteorite.
	"	"	"	"	Street peddlers' carts, Elizabeth St.
D17 NIA, -----	"	Niagara Falls.			In winter.
D17 NIA1, ----	"	"	"		Waters of the great lakes rushing seaward.
D17 NIC7, -----	"	"	"		Frosted trees in Prospect park.
D17 NIG, -----	"	"	"		Grottoes and temples.
D17 NIG2, ----	"	"	"		Ice mountain from Ice bridge.
D17 NIP, -----	"	"	"		Water fall from Prospect park.
D17 NIR, -----	"	"	"		Niagara river by moonlight.
D17 NIW, -----	"	"	"		Whirlpool rapids.
D17 ----------	"	"	"		A drive through a forest of crystal.
D17 Rn, -----	"	Rock City.			Lone rock.
D17 Rn1, -----	"	"	"		Twin sister's rocks.
D17 Rn11, ----	"	"	"		Top of rocks.
D17 Rn12, -----	"	"	"		Below the rocks.
D17 Rn13, -----	"	"	"		Rocks.
D17 Rn14, -----	"	"	"		The flatiron.
D17 WbZ, ----	"	Watkins Glen.			Striated bedding planes.
D17 WbZ1, ---	"	"	"		Moutour falls.
D17 Z2, -----	"	Medina sandstone.			
D17 Z21, -----	"	Natural casts of Atrypa spinosa.			
D17 Z21, -----	"	Falls over Utica slate.			
D17 25, -----	"	Shingle beach, near Olcott lake.			
PG EPj, -----	"	Joint planes on Cayuga lake.			
IN LB11, -----	"	Glen falls boom.			
BT OaS, -----	"	Natural graft of two scarlet oaks.			
637 AB21, -----	"	Milking cows at dairy farm.			
637 BA11, -----	"	Separator at work, dairy farm.			
631 GrA2, -----	"	Grapes in vineyard.			
D56 DIZ, -----	N. Carolina.	Dismal Swamp.			
633.2M CA214, ---	N. Carolina.	Greensboro.			Opening and feeding cotton at mill.
633.2M CA3, -----	"	"			The lapper room, at mill.
633.2M CA321, ---	"	"			Drawing frames where six strands are drawn into one.
633.2M CA33, ----	"	"			Slubbers where yarn is given first twist.
633.2M A31, -----	"	"			Speeders where two strands are drawn and twisted.
633.2M CA35, ----	"	"			Beaming frames where threads are straightened for loom.
633.2M CA36, ----	"	"			Beaming the warp to be washed and dyed.
633.2M CA38, ----	"	"			Slashers where yarn is sized and the selvedge fed in.
633.2M CA11, ----	"	"			Vast weaving room, 2,000 looms.
633.2M CA, -----	"	Raleigh.			Cotton mill close to source of raw material.
D56 Z, -----	"	Sharptop.			Big creek, 1901.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

633.2 CC12, ------N. Carolina. Waiting their turn at the cotton gin.
633.2 CA212, ----- " Cotton gin where cotton is cleaned and separated.
633.2M CA211, ---- " Cotton from gin and the press where it is baled.
633.2M CA213, ---- " Masses of cotton ready for press.
633.2 CB21, ----- " Weighing baled cotton.
D56 ---------- " Negro home in Dixie land.
---------- " Gathering crude turpentine in pine forest.
---------- " Distilling turpentine from crude resin.
---------- " Sweating out tar in turf-covered tar kiln.
D84 OoZ, ------N. Dakota. Oakdale. Limestone cliffs.
D 84 Wi, ------ " Williston. Bad lands south of Missouri River.
D84 Z, --------- " Photo of ribbon lightning. Taken from train crossing prairie.
D71 Z1, --------Ohio. Butler County. Typical section of till.
IM IC124, ----- " Conneaut. Iron. Great hoists unloading vessels.
IM IC125, ----- " " Passing tug showing unloaders at work.
" " King clam-shell hoists unloading.
IM IC127, ----- " " Brown electric hoist dumping ore into car.
IM IC129, ----- " " Twelve ton bite, clam-shell hoist in vessel's hold.
IM IC131, ---- " " Great lakes' freighter laden with ore.
IDB11, -------- " " Great bridge on wheels.
IN CC12, ------ " " Train load of coal.
D71 Z4, -------- " New London. Implements found six ft. below surface in gravel.
D66 CoZ, ------Oklahoma. Fossil coal near Coalgate.
D66 Z, --------- " Underground water course, Gypsum caverns.
----------Oregon. Anna Creek Canon.
---------- " Columbia River. The needles.
---------- " " " Indian house and family on Umatilla Reservation.
D95 Cr1, ------- " Crater Lake. A model of Crater lake.
D95 Cr11, ------ " " " Near Vietor rock.
D95 Cr12, ------ " " " From Mount Scott.
D95 CrA, ------ " " " Wizard Island.
" " " The phantom ship.
D95 Z2, -------- " Great Caves. Old Nick's bedroom.
---------- " " " Drapery room.
---------- " Mt. Hood. From Lost lake.
---------- " " Elliott glacier.
---------- " " The summit.
---------- " " From north, elevation 7,000 ft
IN LA1, ------- " Fluming lumber from the mountains.
D95 Z, -------- " Jordan craters. Driblet cone built of plastic lava
D95 Z1, -------- " Eroded tertiary lake beds.
D95 Z11, ------- " " " " "
D95 Z12, ------- " Canon of Crooked river.
D95 Z13, ------- " Rain and wind sculpture near Price. 1903.
PG EDd11, ---- " Line of sand dune.
PG EDd1, ----- " Effect of wind on sand dunes near Biggs Station.

Pennsylvania.

D48 AlL41, ---Allegheny. Lake. West park.
D48 AlL4, ------ " Carnegie library.
D48 AmA, ------ " mountains, from McGarvey's No. 2.
AnZ1, ---------Altoona. Munda shale and thin sandstone
D48 AnZ11, ---- " Munda shale and sandstone.
D48 AsZ, ------Armstrong county. Pottsville sandstone.
D48 AsZ1, ------ " " Pottery made by George & McNees, Girty.
D48 AsZ11, ----- " " Coal and limestone.
IN BB12, -----Ashley. Breaker.
IN CC1, ------- " Shipping coal after strike.
D48 BdZ, ------Beaver County. Specimen of euryterus mansfieldi.
IN BA223, ---Bear Creek. Pumping oil wells.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

DIS BeD, ——— Bethlehem. Moravian burying ground.
DIS BeF2, ——— " Moravian church, Sister's convent.
DIS BeF22, ——— " Moravian church.
DIS BeR, ——— " Rausch's gravel quarry.
DIS BsZ, ——— Braddock. "Hot bed" where steel rails are cooled.
IN BA, ——— Bradford. Flowing oil well.
IN BA12, ——— " " " " , side flow.
IN BB2I, ——— Bradford. Burning oil tank.
IN BA11, ——— " Filling the shell to torpedo an oil well.
IM IDBI2, ——— " Kinzua bridge
DIS BuL, ——— Bucks County. Panorama from Langhorne.
DIS CaL, ——— Cambria County. Statue of Gallitzin, Loretto.
DIS CaLI, ——— " " Last residence and first church of Prince Gallitzin.
DIS CaM, ——— " " McGuire homestead. First settlement west of the Alleghenies.
DIS CaZ, ——— " " Siliceous limestone.
DIS CaZI, ——— " " "Breath of the morning."
DIS CaZII, ——— " " "Heart of the forest."
DIS Cb, ——— Cameron County. Sled load of logs.
DIS Cbl, ——— " " First fork of the Sinnemahoning waters.
DIS CdI, ——— Carlisle. Eskimos as they arrived at Indian Industrial School and a few months later.
DIS CdII, ——— " First party of Sioux boys. Indian Industrial School, 1879.
DIS CdIII, ——— " Tom Tarlin, Navajo, as he arrived at the Indian Industrial School and three years later.
DIS CeH, ——— Centre County. Hemlock glen, Spruce run.
DIS CgH, ——— Chester. High School.
DIS ChZ, ——— Chester County. Evolution of school buildings, 1818-1902.
DIS ChZII, ——— " " " American kaolin works.
DIS ChZI2, ——— " " " Trap boulders, French creek falls.
DIS ChZI2, ——— " " " Wires and poles broken down by storm.
DIS ClZ, ——— Clearfield County. Outcrop of Brookville fireclay.
DIS ClZI, ——— " " Simms & Co.'s sandstone quarries.
DIS ClZII, ——— " " " Section of Mahoning sandstone.
DIS CnZ, ——— Cocolamus creek. Old mill.
DIS CoZ, ——— Columbia County. Terminal moraine.
DIS CpZ, ——— Connellsville. Coke ovens.
DIS CpZI, ——— " Bituminous coal vein.
IN CA131, ——— " Underground stable, bituminous coal region.
IN CA132, ——— " Bituminous coal vein, showing miners at work.
IN DA1, ——— " Loading coke into ovens.
IN DA18, ——— " Drawing coke from oven.
IN DZ1, ——— " Hillside affected by constant smoke and fumes.
DIS Cq, ——— Costello. Barkpeeler's cabin. 1897.
DIS CrB, ——— Condersport. Balancing rock.
DIS CrI, ——— " Ice mine, Sweden Valley. June 1907.
DIS CrM, ——— " Mina saw mill, 1901.
DIS CrMI, ——— " Cutting and peeling logs.
DIS CrP1, ——— " Pine creek gorge. 1902.
DIS CrP11, ——— " Pine creek gorge.
DIS CrS, ——— " Saw mill and village of Mina.
DIS CrZ, ——— " Children fishing near Corbett.
IN CA15I, ——— Coxton. Coal dump and engine house.
DIS Cs, ——— Cross Forks. Trail of logs, Kettle Creek.
DIS CsL, ——— " Log loader and train, 1895.
DIS CsLI, ——— " Lumber camp, 1902.
DIS CsLII, ——— " Log train, 1905.
DIS Dy2, ——— Danville. Hanging rock.
DIS DaA, ——— Dauphin. Mountain across the Susquehanna.
DIS DbI, ——— Delaware County. Castle rock.
DIS DbII, ——— " " Castle rock.
DIS DbII2, ——— " " Feldspar quarry.
DIS DbL, ——— " " Leiper quarry.
DIS DdA21, ——— Delaware River.
DIS DdAI, ——— " " Near Ravens Rock.
DIS DeA, ——— Delaware Water Gap. View of valley.
DIS DeA2, ——— " " "
DIS DeA22, ——— " " " Looking towards gap.
DIS DeA23, ——— " " "
DIS DeI, ——— " " " Indian ladder bluff.
DIS DeW4, ——— " " " Trail to Winona Cliff.
DIS DeZ, ——— " " " Glacial groove on Table rock

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

D48 DiB, ——— Dingman's Ferry. Bridal veil falls.
D48 DiC2, ——— " " Child's park.
D48 DiC21, ——— " " " "
D48 DiW, ——— " " Winona falls.
D48 DiZ, ——— " " Old mill.
D48 DrA, ——— Driftwood. Old apple tree where Bucktails embarked, 1861.
D48 DrE, ——— " Bucktail monument, erected 1908.
D48 DrE1, ——— " Members of Bucktail regiment at dedication of monument, 1908.
BT PiW23, ——— DuBois. White pine.
D48 Ea, ——— Eaglesmere. The gorge.
D48 EaA, ——— " Lake Pano.
D48 EaF, ——— " Fat man's squeeze.
D48 EaT, ——— " Ticklish rock.
D48 EaY, ——— " Water falls at Forksville.
D48 EaZ2, ——— " How cobblestones are made.
D48 EaZ22, ——— " The big maple tree.
PG DC, ——— " Lateral moraine.
PG BBfr, ——— " Frost pillars.
D48 EpA, ——— Ephrata. General view of grounds of Ephrata community.
D48 EpA1, ——— " The stile. Entrance to Cloister grounds.
D48 EpA11, ——— " Zion hill. Washington's fever-stricken soldiers were brought here.
D48 EpC, ——— " Quiet pool along the Cocalico.
D48 EpC1, ——— " Path to Brother house.
D48 EpC12, ——— " Cocalico near baptismal place.
D48 EpC13, ——— " Bridge over Cocalico.
D48 EpD, ——— " Grave yard.
D48 EpD1, ——— " Grave of Adam Koenigmacher.
D48 EpD11, ——— " Grave of Obed. About 1748. He organized a Sunday Schol in the Ephrata community.
D48 EpD12, ——— " Grave of Petronella.
D48 EpD13, ——— " Graves of the founders, Beissel and Miller.
D48 EpE, ——— " Monument to the revolutionary soldiers.
D48 EpG, ——— " Academy founded in 1857.
D48 EpG1, ——— " Community house.
D48 EpG3, ——— " Brother house.
D48 EpG31, ——— " Hall in Brother house.
D48 EpG32, ——— " Frame work in Brother house.
D48 EpG34, ——— " Chimney in Brother house.
D48 EpG35, ——— " Old fire place in Brother house.
D48 Eps, ——— " Saal or prayer house.
D48 EpS1, ——— " Saal entrance.
D48 EpS11, ——— " Interior of Saal.
D48 EpS2, ——— " Pulpit in Saal.
D48 EpS21, ——— " Old chart in Saal.
D48 EpS4, ——— " Sister house. The knocker.
D48 EpS41, ——— " " " A window.
D48 EpS42, ——— " Entrance to Sister house.
D48 EpS43, ——— " Front view of Sister house and Saal.
D48 EpS44, ——— " Rear view of Sister house and Saal.
D48 EpS34, ——— " General rear view of Sister house and Saal.
D48 EpS46, ——— " Sister house and entrance to Saal.
D48 EpT, ——— " Toll gate.
D48 EpZ, ——— " Scribe's corner.
D48 EpZ1, ——— " Old couple before door.
D48 EpZ2, ——— " Kitchen in house of Ephrata community.
D48 EpZ21, ——— " Kitchen utensils.
D48 EpZ3, ——— " Plastering lath.
D48 EpZ4, ——— " Tickets used in Sunday School founded by Obed.
D48 Z241, ——— " Cloister relics.
D48 ErG2, ——— Erie. Block house of Fort Presque Isle.
D48 FdN, ——— Fayette Co. Clay pits of New Geneva.
D48 FrW, ——— Franklin Co. Wood road, South mountain.
634.1 PeD21, ——— Fremont. Peaches.
D48 Gd, ——— Ganoga Lake. Through the trees.
D48 Dd1, ——— " A glacial lake.
D48 Gd11, ——— " Ganoga creek.
D48 GdG, ——— " Falls.
D48 GdG11, ——— " Ganoga falls. 1895.
D48 DdS, ——— " Sickler branch. 1895.
D48 DdS1, ——— " Sickler branch.
D48 GdS11, ——— " Sickler branch.
D48 GdS12, ——— " On the Sickler branch.

255239

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued

D18 GeA, -----	Gettysburg.	Artillery coming into action.
D18 GeD1, -----	"	Entrance to national cemetery.
D18 GeD11, ----	"	National monument.
D18 GeE21, ----	"	Statue of John Burns.
D18 GeE22, ----	"	Hancock monument.
D18 GeE72, ----	"	Monument of 29th Pa. volunteers.
D18 GeE721, --	"	Monument of 28th regiment on Culp's Hill.
D18 GeG21, ----	"	Gen. Howard's position near Cemetery Hill.
D18 GeG21, ----	"	From Culp's Hill, overlooking position held by 7th Indiana and Knapp's battery.
D18 GeG211, ---	"	Summit of Culp's Hill.
D18 GeG212, --	"	Hospital and Culp's Hill.
D18 GeG1, -----	"	Entrance to Devil's Den.
D18 GeG11, ---	"	Devil's Den.
D18 GeH12, -----	"	Gen. Hancock and staff, battle of Gettysburg
D18 GeH15, -----	"	High water mark.
D18 GeM2, -----	"	Gen. Meade's headquarters.
D18 GeM21, ----	"	McPherson's barn.
D18 GeM1, -----	"	Monterey gap from Little Round Top.
D18 GeO2, -----	"	Old Tape worm railroad cut.
D18 GeP3, -----	"	Pennsylvania college.
D18 GeR1, -----	"	Reynold's grove.
D18 GeR21, ----	"	Gettysburg and Little Round Top.
D18 GeR22, ----	"	Battlefield from Little Round Top, toward Cemetery Hill.
D18 GeR23, ----	"	On the slope of Little Round Top.
D18 GeR24, ----	"	Little Round Top from High Water mark.
D18 GeR25, ----	"	Battlefield from Little Round Top.
D18 GeR26, ----	"	Breastwork of 29th Pa. and 10th N. Y. on Little Round Top.
D18 GeW3, -----	"	The wheat fields.
D18 GeW31, ----	"	Engagement in the wheat field.
D18 GeZ1, -----	"	Battle scarred veteran. (Tree.)
----------	"	Old McAllister mill, built in 1790.
----------	"	Map of battlefield, showing position of armies.
----------	"	Map of battlefield, routes of Union and Confederate armies.
----------	"	Relief map of battlefield.
----------	"	Field across which Pickett charged.
----------	"	Relief map of Cumberland Valley.
----------	"	Confederate Sharpshooter's position above Devil's Den.
----------	"	Abraham Lincoln's Gettysburg address.
----------	"	Painting of battle of Gettysburg. (Rothermel.)
D18 GrZ, -----	Green Co.	"Crabapple" coal bank and Waynesburg sand.
D18 GrZ1, -----	"	Topography and sky line looking south, near Nettle hill.
D18 HaA, ------	Harrisburg.	Susquehanna gap from Reservoir park.
D18 HaA1, -----	"	Old camel-back bridge. Destroyed in 1902.
D18 HaB, ------	"	West State street from capital dome.
D18 HaC, ------	"	Posters in Capitol park.
D18 HaC1, -----	"	Feeding squirrels in Capitol park.
D18 HaC11, ----	"	Long walk in Capitol park.
D18 HaG, -----	"	Old State capitol, burned Feb. 2nd, 1897.
D18 HaG1, ----	"	New capitol dedicated Oct. 4th, 1906.
D18 HaG11, ---	"	View of capitol showing fountain.
D18 HaG112, --	"	Capitol. Showing approach and building.
D18 HaG2, ----	"	Famous bronze doors of new capitol.
D18 HaG21, ---	"	Keys to bronze doors of capitol.
D18 HaG211, ---	"	North corridor in new capitol.
D18 HaG213, ---	"	Ceiling of dome.
D18 HaG22, ---	"	Capitol painting "Religion." (Abbey.)
D18 HaG221, --	"	" " "Science." (Abbey.)
D18 HaG2211, --	"	" " "Law." "
D18 HaG2212, --	"	" " "Art." "
D18 HaG2221, --	"	" " "Spirit of religious liberty." (Abbey.)
D18 HaG2222, --	"	" " "Spirit of Vulcan." (Abbey.)
D18 HaG2223, --	"	" " "Science revealing the treasures of earth." (Abbey.)
D18 HaG2224, --	"	" " "Spirit of light." (Abbey.)
D18 HaG25, ---	"	Ladies' reception room.
D18 HaG3, -----	"	Governor's reception room. Paintings by Oakley.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

D48 HaG31, ___	Harrisburg.	South end of Governor's reception room.
D48 HaG312, ___	"	Capitol painting "Tyndale printing the Bible." (Oakley.)
D48 HaG3122, ___	"	" " "Burning the books at Oxford. (Oakley.)
D48 HaG3123, ___	"	" " "Execution of Tyndale." (Oakley.)
D48 HaG3124, ___	"	" " "Answer to Tyndale's prayer." (Oakley.)
D48 HaG1325, ___	"	" " "Anne Askew refusing to recant." (Oakley.)
D48 HaG3126, ___	"	" " "Development of Puritan idea." (Oakley.)
D48 HaG3127, ___	"	" " "Geo. Fox on Mount of Vision." (Oakley.)
D48 HaG3128, ___	"	" " "Penn in his study at Oxford." (Oakley.)
D48 HaG3129, ___	"	" " "Penn meets the Quaker thought." (Oakley.)
D48 HaG313, ___	"	" " "Penn's father turning him from home." (Oakley.)
D48 HaG3131, ___	"	" " "Penn's arrest while preaching." (Oakley.)
D48 HaG3132, ___	"	" " "Penn's examination." (Oakley.)
D48 HaG3133, ___	"	" " "Penn writing in prison." (Oakley.)
D48 HaG3134, ___	"	" " "Penn seeks to free others." (Oakley.)
D48 HaG3135, ___	"	" " "Penn's vision." (Oakley.)
D48 HaG3136, ___	"	" " "Achievement of Penn's purpose." (Oakley.)
D48 HaG3137, ___	"	" " "Penn's first sight of land." (Oakley.)
D48 HaG33, ____	"	Governor's private office.
D48 HaG331, ___	"	" " "
D48 HaG4, ____	"	Ceiling of the senate chamber in capitol.
D48 HaG41, ____	"	Senate chamber looking towards the president's seat.
D48 HaG411, ___	"	Visitor's gallery in senate chamber.
D48 HaG5, ____	"	Door of Supreme court room in capitol.
D48 HaG51, ___	"	Supreme court room in capitol.
D48 HaG52, ____	"	Dome in Supreme court room.
D48 HaG6, ____	"	House of representatives.
D48 HaG61, ____	"	" " From balcony.
D48 HaG611, ___	"	" " Toward gallery.
D48 HaG8, ____	"	Painting. Encampment of Valley Forge Soldiers by moonlight. 1776.
D48 HaL1, ____	"	State library and museum.
D48 HaL11, ____	"	" " " "
D48 HaL2, ____	"	" " " " Gallery in rotunda showing entrance to Educational museum.
D48 HaL21, ____	"	State library and museum. Staircase
D48 HaL211, ___	"	Interior view of Educational museum.
D48 HaL213, ___	"	Specimens of sewing as taught in public schools, Educational museum.
D48 HaL214, ___	"	Specimens of wood work. Educational museum.
D48 HaL215, ___	"	Rug made by feeble-minded boy. Educational museum.
D48 HaL216, ___	"	Specimens of sewing as taught in the public schools. Educational museum.
D48 HaZ, ____	"	Governor Stuart in his office.
D48 HaZ1, ____	"	Dr. N. C. Schaeffer.
BF Hy, ____	"	Hyacinths in Capitol park.
BF Az, ____	"	Azaleas in Capitol park.
BT CyB, ____	"	Bald Cypress in Capitol park.
BT Z12, ____	"	Hamilton Street school building.
BT PoW, ____	"	The river road.
IN CZ11, ____	"	Fossils from anthracite coal beds, in State museum.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES Continued.

Pennsylvania—Continued.

D4S HcZ, ——— Hazleton. Miner's children and houses.
D4S HcZ11, ——— " Syncline in mammoth coal bed.
D4S HcZ12, ——— " Workings at Hollywood Colliery, No. 1.
D4S HmZ, ——— Hollidaysburg. Junction of State canal and portage R. R. 1842.
D4S HoS1, ——— Homestead. Steel works. Molten iron flowing from blast furnace.
D4S HoS11, ——— " Train laden with molten iron.
D4S HoS12, ——— " Interior of a stripper.
D4S HoS121, ——— " Train of white-hot ingots at the stripper.
D4S HoS122, ——— " White-hot ingot.
D4S HoS14, ——— " Rolls and shears in blooming mill.
D4S HoS141, ——— " Seventy-five feet of red hot bloom.
D4S HoS15, ——— " Huge Bessemer converter at work.
D4S HoS16, ——— " Hot slab entering rolls.
D4S HoS17, ——— " Piling steel beams.
D4S HoS18, ——— " Soaking pits and ingot going to rolls.
D4S HoS19, ——— " Hoppers and cranes loading steel billets.
D4S HoS2, ——— " Running molten iron into ladles.
D4S HoS21, ——— " Shaping a big I beam. Steel works.
D4S HoS22, ——— " Great bridge over Monongahela—train of molten iron.
D4S HoS23, ——— " Steel plate 6 x 25 feet.
D4S HoS24, ——— " Sawing a hot twenty inch beam.
D4S HpA, ——— Horseshoe Curve.
D4S HpA1, ——— " A full train going around the curve.
D4S HpA11, ——— " Trains climbing the curve.
D4S HpA12, ——— " A fast express rounding the bend.
D4S HuP, ——— Huntingdon. Pulpit rocks. Old stage route.
D4S HuS1, ——— " Burhstones in old mill.
D4S HuS11, ——— " Old mill at Saltillo. Perfect type of overshot water wheel.
D4S HuS2, ——— " German Valley church; early mission point now called Shirleysburg.
D4S HuT, ——— " Trough Creek, near Calvin.
D4S HuW, ——— " Water street gap; old stage route now bed of railroad.
D4S HuY, ——— " Gorge through which old Penna. canal passed.
D4S HuY1, ——— " Old cabin in Huntingdon county.
D4S HuY2, ——— " The brook.
D4S HuZ, ——— " Return of the flock.
D4S HuZ2, ——— " Old ore furnace, Hill Valley.
D4S HuZ21, ——— " Old elder mill, crusher and presser.
D4S HuZ22, ——— " Flat boat used in crossing Raystone branch; old single cable ferry.
D4S HuZ3, ——— " The stroke that counts.
D4S HuZ32, ——— " A fresh drink for grandpa.
D4S HuZ33, ——— " Feeding time.
D4S HuZ1, ——— " Stalactites and stalagmites.
676 A1, ——— Johnsonburg. Paper mill. Wood conveyor.
676 A11, ——— " " " Preparing room.
676 A12, ——— " " " Chipper room.
676 A14, ——— " " " Digester.
676 A16, ——— " " " Wet machines.
676 A17, ——— " " " Wash pits.
676 A18, ——— " " " Beater room.
676 A19, ——— " " " Wet end of paper machine
676 A5, ——— " " " Dry end of paper machine.
676 B2, ——— " " " Super calendars.
676 B21, ——— " " " Back section of cutters.
676 B22, ——— " " " Front section of cutters
676 B23, ——— " " " Finishing room.
676 B9, ——— " " " Store room.
676 B91, ——— " " " Supply room.
D4S JoZ, ——— Johnstown. Houses wrecked by flood. 1889.
D4S JoZ1, ——— " Miles of wreckage after the flood. 1889.
D4S JuA, ——— Juniata River. Picturesque scene.
D4S JuA2, ——— " Rocky point.
D4S JuA21, ——— " Mists of early morning.
D4S Ka, ——— Kane. A frosty morning.
D4S Ka1, ——— " Winter's phantoms.
IN AA, ——— " Gas well. 100,000,000 cu. ft. daily.
IN BB22, ——— " Oil tank set on fire by lightning.
IN BCp, ——— " Oil pipe line.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

IN CBB, ____Kingston. Breaker boys.
IN CAs121, ___Lattimer. Coal strippings and breaker.
D48 LfJ, _____Lehigh Co. Dolomite bed near Jordan Bridge.
D48 LfS, _____ " Old quarry, No. 2, at Slatington.
637 AA11, ____Lewisburg. Herd of pure bred Devon cows.
633 RA2, _____ " Rye field.
BT ElA, _____ " American elm and spatterdock.
D48 LgZ, _____ " Work of lightning.
D48 LhN, _____Lewistown. The narrows.
D48 LxH, ____Luzerne Co. Harrison Wright fall, 1895.
D48 LxZ, _____ " Boulder of Pottsville conglomerate.
IN LB26, ____Marcus Hook. Method of piling staves.
IN CBb1, ____Mauch Chunk. Coal breakers.
D48 MeA, _____ " From summit of Mt. Pisgah plane.
D48 MeM, ____ " Mt. Pisgah plane.
D48 MeM11, ___ " Showing Lehigh River and Bear Mountain.
D48 MeMa, ___ " Timbered mountains.
D48 MeS2, ____ " Mauch Chunk.
D48 MeS3, ____ " Spectre cascade.
D48 MeT, ____ " Onoko glen.
D48 MeY, _____ " Burning mine summit.
D48 MbB, ____McKean Co. Big fill on tramway. Gardeau. 1891.
D48 MbZ, ____ " Nitro-glycerine torpedo wagon.
D48 MiY, _____Milford. Blue mountains.
D48 MnZ1, ___Monroe Co. Kames in Cherry valley.
D48 MnZ11, ___ " Long ridge, terminal moraine on Pocono plateau.
D48 MnZ12, ___ " Terminal moraine near Saylorsburg.
D48 MnZ13, ___ " Moraine, kettle and kames, Cherry Valley.
D48 MnZ14, ___ " Kettle holes in moraine, Cherry Valley.
D48 MnZ15, ___ " Terminal moraine crossing Cherry Valley.
D48 MnZ16, ___ " Glacial scratches on Clinton red shale.
D48 MnZ17, ___ " Glacial striae on southern slope of Godfrey's ridge.
D48 MoL, ____Montgomery Co. Lafayette soapstone quarry.
D48 MoZ1, ___ " Contorted gneiss.
D48 MoZ11, ___ " " "
D48 MoZ12, ___ " Rocks exposed in railroad cut. Lafayette station.
D48 MoZ13, ___ " Contorted gneiss, near Lafayette station.
D48 MpJ, ____Mount Union. Jacks narrows. 1892.
D48 NdZ, _____New Castle. Old poster of New Castle and Frenchtown R. R. 1833.
BT Ho, _____New Cumberland. A street.
D48 NeG, _____Newport. Old furnace at Baileys, below Newport.
ZM Sh11, ____Newton Hamilton. Driving home the sheep.
D48 NmZ, ____Norristown. Limestone cuts on Schuylkill Valley R. R.
D48 NnZ1, ____Northampton Co. Glacial till.
D48 NnZ11, ___ " Front side of moraine.
D48 NnZ12, ___ " Creep striae on roofing slate.
D48 NnZ13, ___ " Glaciated boulder.
D48 NoD, _____Northumberland. Grave of Rev. Joseph Priestly. Discoverer of oxygen.
D48 NoP, _____ " Priestly house.
D48 NoY, _____ " Shikellimy's face in rock.
" Canal locks.
D48 OiZ, _____Oil City. Shipping oil in boats, 1863.
D48 OiZ1, ____ " Oil dippers, 1868.
IN BC, _____Oil Creek. First class packet, 1864.
IN BZ121, ___ " Freshet Jam.
IN BC1, _____ " Early mode of transportation, 1864.
IN BC13, ____ " Shipping oil, 1864.
IN BC14, ____ " Hauling oil in barrels to R. R., 1860.
IN BC11, ____ " Carrying oil with neck yoke.
IN BA121, ___ " Tarr farm, 1865.
IN BA1211, __ " Jas. S. McCray farm, Petroleum Center, 1870-73.
IN BA2, _____ " Location of Drake well, first oil well.
IN BA21, ____ " Pit-hole well, 1865.
IN BA211, ___ " Site of Pithole oil wells, 1895.
IN BA22, ____ " Petroleum Center in 1863.
IN BA221, ___ " Drilling a well.
IN BA222, ___ " Oil wells at Petrolia, 1876.
D48 O10, _____Oleona. Ruins of Ole Bull's castle, 1850.
D48 O101, ____ " View across valley from castle.
D48 O1011, ___ " View towards castle.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

D48 OvH, -----Overbrook, garden of Institute for blind.
D48 PbW, -----Paoli. Home of Gen. Anthony Wayne.
D48 PeS, -----Peace Mountain. Shadowy curve.
D48 PhC, -----Philadelphia. Fairmount park, River drive.
D48 PhC2, ---- " " " and Schuylkill River.
D48 PhC22, --- " " " Lily ponds and flower beds
D48 PhC5, ---- " " " Penn house.
D48 PhC65, --- " " " Smith memorial.
D48 PhC97, --- " " " Lake in the Zoo.
D48 PhE2, ---- " Franklin's statue, veiled.
D48 PhE21, --- " " " unveiled.
D48 PhE7, ---- " Penn treaty monument.
D48 PhF5, ---- " Old Swede's church, interior.
D48 PhF8, ---- " The Temple.
D48 PhG, ----- " Bellevue-Stratford.
D48 PhG1, ---- " Betsy Ross house.
D48 PhG2, ---- " Carpenter's hall.
D48 PhG21, --- " " " interior.
D48 PhG3, ---- " City hall from Fidelity Building.
D48 PhG31, --- " " Lighting striking the hall.
D48 PhG7, ---- " Cramp's shipyard.
D48 PhG71, --- " " "
D48 PhG8, ---- " Girard college, main building.
D48 PhH3, ---- " High school. Boys.
D48 PhI, ------ " Independence Hall, Liberty bell.
D48 PhI2, ----- " " " Liberty bell and stairease.
D48 PhI22, ---- " " " Room in which first national congress met.
O48 PhI24, ---- " " " 1735, old state house.
D48 PhI3, ----- " " " Penn's treaty with Indians, (West).
D48 PhL5, ---- " Log cabin, Mermaid lane.
D48 PhM2, ---- " Masonic temple.
D48 PhM21, --- " " orlental hall.
D48 PhM211, -- " " Egyptlan hall.
D48 PhM4, ---- " New U. S. mint.
D48 PhM41, --- " " " Coining room.
D48 PhM42, --- " " " Coiner's adjusting room.
D48 PhS7, ----- " Old railroad depot.
D48 PhS71, ---- " Broad street station.
D48 PhS711, --- " " " " panel "Transportation," (Karl Bitter).
D48 PhS72, ---- " Phila. and Reading terminal station.
D48 PhW1, ---- " On the Wissahickon.
D48 PhW6, ---- " Old monastery, Wissahickon.
D48 PhYz, ---- " On the Brandywine.
D48 PhY1, ---- " Ardmore station.
D48 PhY23, ---- " Rustic bridge at Devil's pool.
D48, ---------- " Horticultural Hall and beautiful garden avenue.
D48 PhY4, ---- " Old washington paper mill, Germantown.
D48 PhB2, ---- " Chestnut Street.
D48 PhB6, ---- " Market Street.
D48 PhB3, ---- " South Broad Street.
D48 PhC8, ---- " Valley Green, Fairmount park.
D48 PhC81, --- " " Bridge in Wissahickon.
D48 PhZ, ------ " Castle of State kitchen.
D48 PhZ1, ---- " Night school for foreigners.
D48 PhZ11, --- " Night school for negroes.
D48 PhZ2, ---- " Pennsylvania farm yard. Germantown.
D48 PhZ6, ---- " Poster of Reliance Transportation Co. Phila. to Pittsburg.
D48 PhZ61, --- " Delaware River ferry boat.
D48 PhZ611, -- " Model of Baldwin locomotive and train, 1834. Phila. and Columbia R. R.
D48 PhZ711, -- " First photograph of lightning taken to prove that it is wavy, not zigzag, 1882 (Jennings.)
D48 PhZ712, -- " Parallel discharge of lightning. (Jennings.)
D48 PhZ713, -- " Lightning between clouds. (Jennings.)
D48 PhZ714, -- " Lightning, radial discharge. (Jennings.)
D48 PhZ715, -- " Tree or branched discharge of lightning. (Jennings.)

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania.

D48 PhZ716, -- Philadelphia. Ribbon lightning. (Jennings.)
D48 PhZ717, -- " Stratified lightning.
D48 PhZ718, -- " Artificial branched discharge lightning. (Jennings.)
D48 PhZ719, -- " Telephoto view of thunder clouds. (Jennings.)
D48 PhZ8, ----- " Brush discharge. (Jennings.)
D48 PhG75, --- " Drexel Institute.
D48 Z921, ------ " Streets where men live.
751 B38m, ----- " Academy of fine arts. New England Women. (Beaux.)
751 B76r, ----- " " " Roumanian lady. (Bridgman.)
751 B83m, ----- " " " Mother and child. (Brush.)
751 E5e, ------- " " " Cello player. (Eakino.)
751 P58o, ------ " " " Borders of the marsh. (Picknell.)
751 R63p, ------ " " " Port Ben D. & H. Canal. (Robinson.)
751 S37w, ----- " " " Winter. (Schofield.)
751 S85b, ------ " " " Elizabeth B Bordley. (Stuart.)
751 S85w, ----- " " " Washington. (Stuart.)
751 V28a, ------ " " " Ariadne in Naxos. (Vanderlyn.)
751 W43m, ---- " " " Midday rest in New England. (Weir.)
752 H18g, ----- " " " Rt. Hon. W. E. Gladstone. (Hamilton.)
752 H18v, ----- " " " Hon. Richard Vaux. (Hamilton.)
752 L56n, ----- " " " Murder of Rutland by Clifford. (Leslie.)
752 W69f, ----- " " " Falls of Tivoli. (Wilson.)
755 G72v, ------ " " " Virgin and child. (Gozzoli.)
759 H26v, ----- " " " Violinist. (Helst.)
759 M49sk, ---- " " " Skaters. (Melchers.)
BT Sy, -------Paxtang. Sycamore tree.
D48 PhoS, ----Phoenixville. Old smelting works.
D48 PhoW, --- " Old Wheatley lead mine.
D48 PiA. -----Pittsburg. View of city in 1817.
D48 PiA1, ----- " Confluence of Allegheny and Monongahela rivers.
D48 PiB6, ----- " Sixth Avenue, 1905.
D48 PiB7, ----- " Bridge of sighs.
D48 PiC1, ----- " Entrance to Highland park.
D48 PiC78, ---- " Zoo in Highland park.
D48 PiE9, ----- " Washington statue.
D48 PiG1, ----- " Carnegie institute.
D48 PiG11, ---- " " " Hall of sculpture.
D48 PiG112, --- " " " Interior view.
D48 PiG12, ---- " " " Entrance to music hall.
D48 PiG121, --- " " " Foyer of music hall.
D48 PiG13, ---- " " " Art gallery paintings. "Penance of Eleanor." (Abbey.)
D48 Pig5, ----- " Old block house.
D48 PiK2, ----- " Skeleton of skyscraper.
D48 PiK21, ---- " Skyscraper, Keenan building.
D48 PiL2, ----- " Carnegie Library, Alexander hall, 1907.
D48 PiP3, ----- " Phipp's conservatory.
D48 PiB3, ----- " Fifth Avenue.
D48 PiC8. ----- " Panther Hollow, Schenley park.
" Road in River View park.
D48 PiC17, ---- " Tunnel walk, Highland park.
D48 PiP31, ---- " Phipp's Conservatory.
D48 PiC81, ---- " A shelter in Schenley park.
D48 PiS, ------ " Humbold school. Carpenter shop.
D48 PiS11, ---- " Colfax school. Card-board work.
D48 PiS12, ---- " " Manual training exhibit.
D48 PiS13, ---- " Birmingham school, manual training class.
D48 PiS14, ---- " " " cooking oysters.

Pennsylvania--Continued.

UNITED STATES—Continued.

Pennsylvania.

D48 PiS2, -----	Pittsburg.	Holmes school. Domestic science class.
D48 PiS21, ----	"	" " " " Pastry.
D48 PiS22, ----	"	Domestic science class, bread making.
D48 PiS23, ----	"	North school. Lesson in dishwashing.
D48 PiU, ------	"	Union bank and Commonwealth building, 24 stories.
BF Ch, -------	"	Chrysanthemums in Phipp's conservatory.
D48 PiY1, -----	"	Monongahela incline.
D48 PiZ1, -----	"	Back yards.
D48 PiZ11, ----	"	Only entrance to one boy's home.
D48 PiZ12, ----	"	Kindergarten.
D48 PiZ2, -----	"	Snow scene, March 12, 1906.
D48 PiZ4, -----	"	Special train on B. R. and P. R. R. June 13, 1906.
D48 PiZ41, ----	"	Loaded cars ascending, empties descending, at tipple. Bituminous coal.
D48 PiZ111, ---	"	Wetting down and cooling bed of pig iron.
IM IB11, -----	"	Front view of ladle.
IM IB112, ----	"	Stream of slag granulated by water as it runs from furnace.
IM IB121, ----	"	Carrying away and loading pigs.
IM IB122, ----	"	Emptying cooled pig iron from mould into car.
IM IB123, ----	"	Making moulds for pig iron.
IM IB124, ----	"	Metal yard showing piles of pig iron.
IM IC13, -----	"	Iron ore and coke cars.
IM GZ2, ------	"	Plate glass works.
IM SA3, ------	"	Modern steel plant.
IM SA31, -----	"	Yard of steel works.
IM SA312, ----	"	Trip hammers.
IM SA32, -----	"	Charging a Bessemer converter.
IM SA321, ----	"	Pouring molten steel into ingot moulds.
IM SA322, ----	"	Red hot steel beam cut into lengths by buzz saw.
IN DA12, -----	"	A mountain of coke.
IN DA13, -----	"	Under coal tank showing coke ovens and their smoke stacks.
IN DA151, ----	"	Coke ovens. Loading cars.
IN DA16, -----	"	Automatic coal heaver distributer, Coke works.
IN DA17, -----	"	Modern Coke works, showing 10,000 ton coal tank.
IN DC12, -----	"	Trains loaded with pig iron, showing Coke ovens on left.
IM IC13, -----	"	Iron ore and coke cars.
IN CA121, ---	"	Entrance to coal mine, 1903.
IM IB, -------	"	Plant of blast furnace.
IM IB1, ------	"	Great ladle pouring molten metal into revolving endless chain of pig iron moulds.
IN CC1, ------	"	Train load leaving mine for market.
IN DA14, -----	"	Filling a coke oven with coal.
IN DA15, -----	"	Bee Hive coke oven being repaired.
IN DC13, -----	"	Dumping coal into car which fills oven.
637 AA12, -----	"	Dairy farm near city.
751 C6c, ------	"	Carnegie art gallery, paintings. Clouded sun. (Innes.)
751 R15e, -----	"	" " East River idyl. (Ranger.)
751 S37a, -----	"	" " Across the river. (Schofield.)
751 S59e, ------	"	" " Evening in the studio. (Simon.)
751 T78m, -----	"	" " May. (Tryon.)
751 V51k, ------	"	" " Keeper of the threshold. (Vedder.)
751 W58p, -----	"	" " Portrait of Pablo Sarasate. (Whistler.)
752 E19r, ------	"	" " Returning from church. (East.)
753 G82m, -----	"	" " Mrs. Maurace Greiffenhagen. (Greiffenhagen.)
754 A48m, -----	"	" " Mirror in the vase. (Aman-Jean.)
754 B29p, ------	"	" " Peasant. (Bastien Lepage.)
754 D12d, ------	"	" " Disciples at Emmaus. (Dagman-Boucceret.)
754 R13b, ------	"	" " Boulevard des Italiens, Paris. (Raffaelli.)

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

759 M49s, ------ Pittsburg. Carnegie Art gallery. Sailor and sweetheart, (Melchers.)

D48 PoP, ------ Pocono. Paradise falls.
D48 PoP2, ---- " Pool quarry.
D48 PoR, ------ " Rhododendron walk.
D48 PoT, ------ " From Mt. Pocono tunnel.
D48 Pt1, ------ Potter Co. Ground slide, Galeton.
D48 Pt11, ----- " Log landing, Cherry springs.
D48 Pt12, ----- " Logging scene near Austin, 1892.
D48 Pt13, ----- " Old method of loading logs, Moore's Run, 1890.
D48 Pt14, ----- " Loading logs, Hulls, 1904.
D48 Pt15, ----- " Log slide at Hammersley, 1908.
D48 Pt16, ----- " Children wading, Hammersley, 1908.
D48 Pt17, ----- " Fishing scene at Hulls.
D48 Pt18, ----- " Lumbering camp, Windfall Run, 1899.
D48 Pt19, ----- " Portable camps at Windfall Run, 1900.
D48 Pt2, ------ " Original way of making tram roads, 1891.
D48 Pt21, ----- " Bark slid to cars, 1896.
D48 Pt22, ----- " Skidway of logs, 1895.
D48 Pt25, ----- " Barkpeeler's cabin, Costello, 1897.
ZM DeV5, ----- " Deer at Camp Hastings.
D48 Pt23, ----- " Log slide near Corbett, 1901.
D48 RbF, ------ Radnor. Old St. David's church.
D48 ReA, ------ Reading. Loop of the Schuylkill from Neversink.
IN LA121, ---- Ridgway. Recently cut over lands; heaps of brush.
633 CA2, ------ Richmond Station. Corn field.
D48 RnZ, ------ Robbins. Train on the B. & O. wrecked by washing away of embankment.
D48 RoB, ------ Rockville bridge near Harrisburg.
D48 RoB1, ----- " largest stone arch bridge in the world.
D48 ScZ1, ----- Schuylkill Co. Antielinal strata, above Port Clinton.
D48 ScZ11, ---- " Railroad cut showing "creep."
D48 SdC, ------ Scranton. The Glen, Nay Aug park.
D48 SdY4, ----- " Nay Aug tunnel.
D48 SdY41, ---- " On the Lackawanna near Scranton.
D48 SdZ, ------ " D., L. and W. railroad yards.
" Silk mill.
IN CA1, ------ " Coal outcroppings, near surface.
IN CA11, ----- " " Breaking and loading.
IN CA13, ----- " " Abandoned mine showing prop timber
IN CA14, ----- " " Loading cage with car of coal.
IN CA15, ----- " Dumping culm.
IN CA16, ----- " Miner drilling and laborer loading coal.
IN CBb11, --- " Oscillating screen separating grate coal from small size in breaker.
D48 SpT, ------ Spruce Creek tunnels.
D48 SgZ11, ---- Shenandoah. Culm and rock heaps.
IN CAs1, ----- " Coal. Surface strippings.
IN CAs11, ---- " " Mammoth vein 1 mi. under ground. Kohinoor colliery.
IN CAs12, ---- " " Link chain dirt scraper.
D48 StS1, ------ State College. College creamery. Putting cream in paper packages.
D48 StS11, ----- " Students testing milk
D48 StS111, --- " Students propagating pure cultures to develop good flavor in butter.
D48 StS2, ------ " Dairy farm.
D48 SuZ, ------ Steelton. Coal dredger on the Susquehanna.
D48 SwW, ----- Swarthmore. House of Benjamin West.
D48 Ti, -------- Tioga Co. Four Mile Run log camps, 1901.
D48 TjY, ------ Titusville. Drake oil well and Col. Drake. The first oil well.
D48 TjZ, ------- " Flood of 1894.
IN BZ1, ------ " Great oil fire, 1880.
637 BZ41, ----- Torresdale. Old spring house.
633.6 Ha, ------ Thorndale. Hay field.
D48 VaG, ----- Valley Forge. Old barracks.
D48 VaE5, ---- " " Statue of Gen. Anthony Wayne.
D48 VaS, ----- " " Old school house.
D48 VaW, ----- " " Washington's headquarters.
D48 VaW1, ---- " " " " Doorway.
D48 VaW12, --- " " " " Hallway.
D48 VaW13, -- " " " " Secret passage.
D48 VaZ, ------ " " Washington and his Generals.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

DIS VaZ11, ... Valley Forge. Washington among his soldiers.
DIS VaZ1, ... " " Washington at prayer.
---------- " " Fort Washington.
---------- " " Interior of Penn school house.
DIS WaA, ... Warren. Allegheny at Big Bend.
DIS WaE1, ... " Cornplanter monument, Warren County.
DIS WaY, ... " Bent Run.
DIS WaZ23, .. " Largest engine in U. S. passing through city.
DIS WaZ21, .. " Cornplanter Indian school.
IN 3B2, ... " Hen coop oil company.
IN BB21, ... " Burning oil tank.
IN BD1, ... " Burning gasoline tank.
IN LB25, ... " Lumber yard at Glade Run.
DIS WbZ11, . Warren County. Glacial topography. Russel.
DIS WbZ21, . " " Cliff of Knapp Conglomerate, Big Bend.
DIS WbZ25, . " " Glacial gravel at Russel.
DIS WcZ, ... Washington Co. Water fall over Benwood limestone, Meigs Creek.
DIS WcZ11, ... " " Outcrop of Pittsburg coal below Pittsburg sandstone.
DIS WcZ12, .. " " Burned rocks.
DIS WdA, .. . Waterford. Site of Fort Le Bouff.
DIS WdG, ... " Block house, Fort Le Bouff.
DIS WeS, ... Waynesboro. Snow Hill nunnery. The meeting house.
DIS WeS1, ... " " " Stone steps leading to spring.
DIS WeS11, ... " " " Spring house and kitchen under one roof.
DIS WiA, ... Wilmerding. Birdseye view.
DIS WiT, ... " Tenement houses, Air brake avenue.
DIS WiW, ... " General office building Westinghouse air brake co.
DIS WiWI, ... " Flower beds near general office, Westinghouse air brake company.
DIS WgZ, ... Westmoreland Co. Landslide on Pittsburg & Lake Erie R. R. near Collinsburg.
IN CA12, ... " Mine entrance.
BT Mbss, ... West Chester. Maples.
IN LB12, ... Williamsport. Log boom.
633 CB26, ... Crawford Co. Corn binder at work. Rear view showing twine box.
DIS Z, ... Cable Ferry.
DIS Z1, ... Model of engine "Sandusky."
DIS Z11, ... Model. Methods of mining anthracite coal.
DIS Z2, ... Stage coach.
DIS Z21, ... Relief model. Century of progress in transportation, 1792-1892.
DIS Z211, ... Conestoga wagon.
DIS Z4, ... Model of canal boat, on train of cars.
DIS Z11, ... Pennsylvania Canal, 1831-53.
DIS Z111, ... Canal lock at 7 mile level on the Juniata.
DIS Z112, ... Plane no. 6 Portage R. R. 1842.
DIS Z113, ... " no. 7 " " 1835.
DIS Z5, ... Model showing primitive method of unloading vessels, 1893.
DIS Z7, ... Chimney Rock.
DIS Z8, ... Sailor's Ford.
DIS Z85, ... Cobb's Creek.
DIS Z9, ... Slate, Bell's Gap.
DIS Z91, ... Heavy bed of red Catskill Shale near Allegrippus.
DIS Z911, ... Boulders of Conglomerate, Rhine Run.
DIS Z912, ... Block sub-olean conglomerate, Glade.
DIS Z913, ... Siliceous limestone on Bell's Gap.
DIS Z914, ... " " at Allegrippus.
DIS Z915, ... Blocks of heavy sandstone showing conglomerate charaeter.
DIS Z916, ... Outcrop of Chemung shale and sandstone, near Landes.
DIS Z917, ... Portion of siliceous limestone bed at McCrea Furnace.
IN C1, ... Map of anthracite area in Pennsylvania.
633 WB4, ... Pennsylvania. Cutting wheat with cradle.
633 BuA2, ... " Buckwheat.
ZM Sh, ... " Sheep in chestnut grove.
633.3 Ha1, ... " Haying on the meadows.
DIS 3, ... Economic and geologic map based on map of state survey. 1893.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

Pennsylvania—Continued.

D48 4, ——— Map showing forest reserves.
D48 5, ——— Map of canals, railroads and stage roads, 1840.
D48 51, ——— "A map of Pennsylvania and the parts connected therewith relating to roads and inland navigation," 1791.
D48 6, ——— Relief map.
D57 ChZ, ——— S. Carolina. Charleston. Earthquake of 1886. East Bay street.
D57 ChZ1, ——— " " Craterlet. Ten mile hill.
D57 ChZ11, ——— " " Appearance in 1905 of craterlet caused by earthquake in 1886.
D57 ChZ112, ——— " " Earthquake wreck, Tradd street.
——— " " Live oaks fringed with Spanish moss.
633.2M CA2, ——— " Columbia. Olympian cotton mills.
633.2M CA37, ——— " " Spinning room in cotton mill.
633.2M CA4, ——— " " Warping room in cotton mill.
633.1M RAs, ——— " West Point. Rice mills.
633.1 RC, ——— " A rice raft.
EK Z, ——— " "Aunt Charlotte."
D83 Be2, ——— S. Dakota. Bear Butte creek.
D83 Hf, ——— " Wild Cat gulch, near Hermosa.
ZB PrH11, ——— " Hunting prairie chickens.
IN LA12, ——— " Cutting in Bull Pine forest, conservative lumbering.
637 BD21, ——— " Sampling tub butter.
637 BZ1, ——— Tennessee. Athens. Water wheel for driving separator.
633.2M CA41, ——— Texas. Dallas. Slashing or starching warp in cotton mill.
D64 GaZ, ——— " Galveston. Searching for dead among ruins after the flood.
633.2M CCt, ——— " Loading cotton on barges.
633.2M CB2, ——— " Part of the four million bales of cotton, the yearly crop.
D92 OgY, ——— Utah. Ogden. Cascade.
D92 SaT, ——— " Salt Lake City. Mormon temple.
——— " " " " Interior of Tabernacle, (seating 8,000) and great organ.
D92 Z, ——— " Red conglomerate in canon near Parowan lake.
D43 Prm, ——— Vermont. Proctor. Marble quarry.
D43 Z, ——— " Marble quarry.
D42 Z14, ——— " Seams in limestone, Highgate Springs.
633.3M B, ——— " Gathering sap for maple syrup.
633.3 Am, ——— " Old fashioned maple sugar making; boiling down sap.
633.3M Bm, ——— " Packing room in sugar factory.
D55 HaZ, ——— Virginia. Hampton Roads. Mass. and Brooklyn, war vessels.
D55 Le, ——— " Leesburg. Valley of Newark conglomerate.
D55 Nb, ——— " Natural bridge.
D55 Z, ——— " Photograph of Gen. Rob't. E. Lee.
D97 Z, ——— Washington. Columbia River. Largest log raft ever built, 65,000 logs.
IN LB21, ——— " Port Blakeley. Largest lumber mills in world.
633 Wb3, ——— " Thirty-three horse harvester cutting, threshing, and sacking wheat.
——— " Columbia River, Cape Horn.
——— " Mt. Rainier.
——— " Mt. Rainier and Longmeyer's spring.
——— " Mt. Rainier. Giant's Cap.
——— " Mt. Rainier. Snow Bluffs, elevation 12,000 ft.
——— " Tree growing astride a large log.
D54 Ne1, ——— West Virginia. New River.
D54 Ne11, ——— " " " From cliffs back of Fire creek
D54 Z, ——— " Tunnel on N. & W. R. R. showing great overthrust fault.
D54 Z1, ——— " Pseudopecopteris obtusiloba.
D54 Z11, ——— " " " larger
D75 Z, ——— Wisconsin. Lake Mendota. Profile rock.
——— " Marinette. Cutting logs for paper making.
——— " Folding and packing paper.
——— " Making wrapping paper out of wood pulp.
——— " Wood pulp in sheets.
D87 Z1, ——— Wyoming. Devil's tower.
D87 Z11, ——— " Sinkhole in Minnekhata limestone, near Cambria.

GEOGRAPHY AND TRAVEL—Continued.

UNITED STATES—Continued.

PG EBw21,	Wyoming.	Differential weathering.	In the fossil regions of Wyoming.		
D871 Df,	"	Yellowstone National Park.			Devil's slide.
D871 Fo,	"	"	"	"	Fountain geyser.
D871 Fol,	"	"	"	"	Paint pots.
D871 Gl,	"	"	"	"	Rustic falls, Glen lake.
D871 Ha,	"	"	"	"	Hayden valley.
D871 Hal,	"	"	"	"	Hayden valley, Ox-bow bend.
D871 Mb,	"	"	"	"	Mammoth hot springs, Cleopatra's terrace.
D871 Mbl,	"	"	"	"	Mammoth hot springs, lower basin.
	"	"	"	"	Mammoth hot springs, main terrace.
	"	"	"	"	Hot springs formation.
	"	"	"	"	Mammoth hot springs, hotel and valley, showing Liberty Cap.
D871 No,	"	"	"	"	Norris Basin, Growler, Hurricane and Old Constant Geysers.
D871 Ol,	"	"	"	"	Old Faithful geyser.
D871 Up,	"	"	"	"	General view of Upper geyser basin.
	"	"	"	"	Upper geyser basin, grotto geyser.
D871 Ye,	"	"	"	"	Yellowstone river Summit of upper falls.
	"	"	"	"	Down Canon river from Inspiration point.
	"	"	"	"	Great falls and Grand Canon from artist's point.
	"	"	"	"	Minerva terrace.
	"	"	"	"	On Golden Gate road.
	"	"	"	"	Gibbon river.
ZM BeGl,	"	"	"	"	Grizzly bear.
PG DA,	"	"	"	"	Probably crater of a geyser.
	"	"	"	"	From Pt. Lookout. Peering into mysterious crater of Old Faithful.
	"	"	"	"	West from the Continental Divide over Shoshone Lake.
D871 Zl,	"	"	"	"	Fossil tree trunks, Fossil forest.

D321, ... Coal map of the United States.
IN C, ... Map showing known distribution of coal in U. S.
D3 5, ... Map of forest regions of the U. S. 1908.
D3 51, ... Map of the forest regions of the U. S.
D7, ... Map showing area drained by Ohio river.
IN L, ... Comparison of the relative production of lumber by nine States in 1880 and 1907.

GEOGRAPHY AND TRAVEL—Continued.

MEXICO.

D2 Chs, ——— Cholula. Sacred shrine on Cholula and "old Popocatepetl."
633.1 CB1, ——— Cordoba. Drying coffee.
——— Mitla. Prehistoric ruins of Mexico. Hall of monolith columns.
633.1 CA1, ——— Orizaba. Coffee and banana hacienda.
——— Puebla. Pottery making.
——— Tehuantepec. In rubber tree grove, Ubero plantation, native extracting rubber.
D2 MeZ, ——— Home of the Peon.
——— Calendar stone found in 1790, witness to Aztec enlightenment.
732.9 Mn, ——— Some of the best examples of Maya Sculpture.
633.5 B21, ——— Cacao beans curing, La Clementina plantation.
633.1 CB14, ——— Crude native method of husking coffee.

CENTRAL AMERICA.

D286 Z1, ——— Costa Rica. "Through loopholes of retreat." Tropical verdure above the clouds.
634.3BBc2, ——— " " Harvesting bananas.
732.9 Hc1, ——— Honduras. Copan stele showing sculpture.
732.9 Hc, ——— " Copan stele 6 showing hieroglyphics.
633.1 CB13, ——— Nicaragua. Bronze colored maidens sorting coffee.
——— Panama. Cristobel. Statue of Columbus.
——— Panama. Colon. Sunset in the tropics. Caribbean Sea.
E6 PaZ, ——— Panama. Native home near canal zone.
E6 PaZ1, ——— " Talamancan girls grinding corn.
——— " Landing pigs for market.
633.3 CB1, ——— " Cutting sugar cane.

WEST INDIES.

D29 Z, ——— One way of marketing sweet potatoes.

Jamaica.

D292 Z, ——— Milk delivery in Jamaica.
D292 Z1, ——— Native Jamaican school children reciting in their rough little school house.
633.3M A23, ——— Kingston. Grinding machine at sugar mill.
633.3M A24, ——— " Boiling coppers at sugar mill.
633.4 ToB23, ——— May Pen. Tobacco leaves in a drying shed.
633.4 ToAj, ——— Montpelier. Largest tobacco field in the world.
633.1 CBj, ——— Gathering coffee berries.
633.1M CBj, ——— Pulping coffee in the old way.

Cuba.

633.3 CCc, ——— Caracus. Hauling car loads of cane to mills.
——— Havana. Bread man.
633.4 ToB2, ——— " Cuban farmer cutting tobacco.
633.4M ToBc, ——— " Cuban cigar makers at work in factory.
633.1 CC1, ——— " Coffee from Porto Rico.
636.2 CC, ——— " Unloading cattle from ocean steamer.
634.3 BBc4, ——— Laborers on banana plantation.
633.4 ToB21, ——— Drying tobacco, A typical plantation.

Porto Rico.

D295 SaA, ——— San Juan. On the sea coast.
633.5 CoBp, ——— Byamays. Natives in a cocoanut grove.
633.5 CoBp1, ——— Mayaguez. Husking cocoanuts.
D297 Sa2, ——— St. Kitts. Picaninnies' candy store. Sugar cane.
D298 MaA, ——— Martinique. St Pierre, prostrate and lonely.
D298 Sa3, ——— St. Lucia. Coaling.
D298 SbR, ——— St. Vincent. Ash deposits along Rabacca River.
D298 SbW, ——— " Sea coast showing Subsidised area, where Wallibou village stood.
633.1 CB11, ——— Guadeloupe. Coffee pickers arriving at mill.
633.1 CB12, ——— " Coffee pickers homeward bound.

SOUTH AMERICA.

Peru.

636.3M Ap1, ——— Arequipa. Indian women and children sorting wool.
636.3M Ap2, ——— " Washing and drying wool.

GEOGRAPHY AND TRAVEL.—Continued.

SOUTH AMERICA—Continued.

E5 CaZ, ——— Callao. Moonrise on the Pacific.
E5, ——— Cuzco. Wonderful masonry of ancient Incas laid without tools or mortar.
——— " Terraced walls of fort where the Spanish defeated the native Inca Ring, 16th century.
——— " Old Spanish aqueduct made of still older Inca stones on Andean Mountain side.
ZM Sh13, ——— " Sheep raising in the Andes.
E5 MoA, ——— Mollendo. Surf.
E5 MoA1, ——— " Surf.
E5 MoA11, ——— " Ocean waves.
E5 MoA12, ——— " Waves breaking on rocks.
633.3 CAp, ——— Santa Clara. Irrigating plains and sugar cane.
——— " " Harvesting sugar cane.
——— Lake Titicaca. Two miles above sea level. Straw boats.

Ecuador.

E62 GuZ, ——— Guayaquil. Future citizens of equatorial America.
——— Quito, the city of the equator, 9,350 feet above sea level.
633 CB2, ——— Country house wife grinding oats for bread.
633.5 CB2, ——— Cacao pod cut open showing beans.
633.5 CA2, ——— Cacao plantation, La Clementina.

Venezuela.

633.1 CCv, ——— Pack burros laden with coffee.

EUROPE.

——— Scotland. Abbotsford. Where Sir Walter Scott wrote the Waverly novels.
——— " " " Sir Walter Scott's library.
——— " Ayr. "Twa brigs," immortalized by Burns.
——— " Ayr. Rob't. Burns' monument on village green.
——— " Ayr. Birthplace of Rob't. Burns.
AI Ay, ——— " Aryshire. "Auld brig o' Doon," made famous by Burns.
——— " Bannockburn. Battle ground.
——— " Dryburgh. Burial place of Sir Walter Scott.
——— " Dumfries. House where Rob't. Burns died.
——— " " Memorial to Burns.
——— " Edinburgh. Holyrood palace, home of Mary, queen of Scots.
——— " Forth Bridge. Scotland's pride.
IN CZ, ——— " Glasgow. Stump standing as it grew in coal measures.
——— " Jedburgh. Beautiful Norman Abbey.
——— " Melrose Abbey. Exterior.
——— " Staffa. Fingal's cave. Looking from entrance into mysterious depths.
——— " Stirling castle. Outlook from castle.
——— " " " Seat of old-time kings.
——— " Tantallon. Castle where Douglas and Marmion met.
AI Ta, ——— " Valley of the Tay.
——— " Wick. Thousands of kegs of Scotch herring.
——— " "Were the rude Trossachs dread defile opens on Katrine's Lake and Isle."
AI Z, ——— " A highland home.
——— Ireland. Balbriggan. Modern loom for fine texture hosiery.
——— " Cork. Blarney Castle, shrine of Irish wit, near Cork.
A15 Co, ——— " County Cork. Cottage.
A15 Ke, ——— " County Kerry. A farm yard scene.
——— " Enniskerry. Dargle bridge.
A15 Gi, ——— " Giant's Causeway.
A15 GiL, ——— " " " The Loom.
——— " Kilkenny Castle. Mirrored in the river.
——— " Kilkee Island. Wave-worn rocks.
——— " Killarney. Old Weir bridge.
A15 QZ, ——— " Queenstown. Sea gulls.
A15 Z1, ——— " Interior of an Irish cabin.
A15 Z2, ——— " Cutting peat.

GEOGRAPHY AND TRAVEL—Continued.

EUROPE—Continued.

533.2M FA23, -----	Ireland.	Hatcheling flax. First process in making Irish linen.
533.2M FA23, -----	"	Damask weaving room.
533.2M FA21, -----	"	Bleaching field near linen mills.
A2 WiZ, ------	England.	Isle of Wight. Picturesque thatched cottages.
A2 LaA, -----	"	Langdale Valley. From Stock Ghyll Force, showing lake district.
----------	"	London. Tower of London, famous old palace and prison.
----------	"	London. London bridge.
722.5 Eo, -------	"	Oxford. Chapel of New College, founded 1379.
A2 PeZ, ------	"	Penzance. Cornish fishwives with baskets.
----------	"	Shottery. Anne Hathaway's cottage.
----------	"	Sussex. Gate of Battle abbey on battlefield of Hastings. 1066.
A2 WbG, ----	"	Warwick. The castle. Finest feudal residence in England.
A29 CoG3, ----	Wales.	Conway. Castle and bridge. Built by Edward I in 1284.
A29 CoG31, ----	"	" Castle.
A29 CoZ1, ----	"	" Old Welsh cottages.
A29 CoZ11, ----	"	" Group of cottages.
----------	Germany.	Berlin. Old art museum.
----------	"	" Statue of Frederick the Great.
----------	"	" "Under den Linden," famous street.
----------	"	Hamburg. Great bridge over the Elbe.
----------	"	Nuremberg. Quaint old houses, 15th and 16th centuries.
----------	"	" Old city walls and watch tower.
----------	"	Rhine River. Lorelei rocks.
A3 RhD, ------	"	" " Castled crag of Drachenfels.
A3 RhR, ------	"	" " Rheinstein castle.
SpZ, ---------	"	Spreewald. School children at play.
----------	"	Val Ampezzo. Austrian hamlet.
BT SpN, ------	"	Spruce forest in Austria.
----------	France.	Balinghem. "Field of the cloth of gold."
----------	"	Carnoet. Breton peasants making wooden shoes in forest.
A4 Ch4, ------	"	Chamonix. From trail to the Brevant.
A4 Ch41, -----	"	" Mer de glace (Sea of ice.)
PG DB3, -----	"	" Glacier des Bossons.
----------	"	Craeh. Interior of a Breton village home.
----------	"	Domremy-la-Pueelle. Birthplaee of Joan of Arc.
----------	"	Fountainebleau. Throne room of Napoleon I.
A4 MbA, -----	"	Marseilles. The harbor.
A49 Mo, ------	"	Monaco. The prince's castle.
A4 PaL4, ----	"	Paris. Luxembourg museum. Statue.
A4 PaL41, ---	"	" " " " "Youth and love."
724.1E Pm, ------	"	" Church of Madeleine.
----------	"	" Venus de Milo, most beautiful statue in the Louvre.
----------	"	" Looking down from Eiffel tower.
----------	"	" Eiffel tower, 985 ft. high.
----------	"	" Notre Dame cathedral, the most celebrated in France.
----------	"	" Interior of Notre Dame cathedral.
----------	"	" Bastille monument, where old prison stood.
----------	"	" Arch of Triumph, to commemorate victories of Napoleon I.
----------	"	" Sarcophagus of Napoleon I, Dome des Invalides.
----------	"	The Louvre. Statue of Venus.
A4 RiZ, ------	"	Riviera. Corniche road constructed under Napoleon I.
----------	"	Versailles. Gallery of battles.
A4 PaZ, ------	"	Weaving Gobelin tapestry.
A5 CbZ, ------	Italy.	Carrara. World-famed quarries.
A5 CbZ1, -----	"	" Marble refuse from quarries.
734 Zm, ------	"	Florence. Tomb of Michael Angelo.
A5 Li, -------	"	Lipari Islands. Crater.
726.6 Im12, -----	"	Milan. Cathedral detail.
A5 NaA, ------	"	Naples. Birdseye view.
A5 NaZ, ------	"	" Wholesale macaroni drying in streets.

GEOGRAPHY AND TRAVEL—Continued.

EUROPE—Continued.

733 Ah,	Italy.	Naples.	Statuary.	Head of Homer in museum.
733 Bhl,	"	"	Statuary.	Farnese Hercules.
	"	"	"	Farnese bull at Grand National museum.
723.4 Pl,	"	Pisa.	Leaning tower and cathedral.	
723.4 Pll,	"	"	Famous leaning tower.	
A5 RoA2,	"	Rome.	View from St. Peter's dome.	
A5 RoA3,	"	"	The Tiber, Castle of San Angelo, and St Peter's.	
	"	"	Chamber in Cappucelni catacombs.	
A5 RoD3,	"	"	Castle and bridge of San Angelo.	
A5 RoG25,	"	"	Interior of the Colosseum.	
	"	"	Aqueduct of Claudius, constructed A. D. 52.	
722.7 Re,	"	"	Arch of Constantine.	
722.7 Rfl,	"	"	Forum columns of temple of Saturn.	
722.7 Rf5,	"	"	Forum of Trajan.	
722.7 Rt,	"	"	Arch of Titus.	
726.6 Ir7,	"	"	Ancient cloisters of St. Paul's.	
733 Ba,	"	"	Statue of Apollo Belvedere, Vatican.	
733 Cl,	"	"	" Laocoon.	
733 Em,	"	"	Equestrian statue of Marcus Aurelius	
733 Bh5,	"	"	Statue of Hermes, Olympia museum.	
	"	"	Gallery of statues in the Vatican.	
	"	"	" " "	
	"	"	The Appian way.	
	"	"	The Colosseum.	
728 Roc,	"	"	Palace of Colonna, interior.	
755 Rzt,	"	"	Transfiguration, (Raphael) in the Vatican	
	"	Venice.	The grand canal.	
	"	"	" "	
A5 VcB4,	"	"	Bridge of Sighs.	
A5 VcB5,	"	"	Doge's palace and prison.	
	"	"	Lion of Venice.	
	"	Vesuvius.	In eruption.	
A5 Vg,	"	"	The base.	
A5 Vgl,	"		Italian bread peddler.	
	"	Sicily.	Syracuse. Theatre of the 5th century, and modern Syracuse.	
A25 SyA,	"	Old Palermo.	Crowded market place. Goats milked while you wait.	
	"	"	Picking lemons in grove.	
A6 BlV,	Spain.	Bilboa.	Viscaya bridge.	
A6 BuA,	"	Burgos.	General view.	
A6 Gl,	"	Gibraltar.	Rock of Gibraltar.	
	"	Granada.	Cathedral. Tomb of Ferdinand and Isabella.	
	"	"	Walls and towers of the Alhambra.	
633 Wbs,	"	Guipuzcoa.	In the Basque province. Harvesting wheat.	
732.5,	"	Toledo.	Cloisters of San Juan-de-les Reyes.	
A7 CaMl,	Russia.	Caucasus.	Military road.	
A7 CaMll,	"	"	" at south end of mountain.	
726.5 Ra,	"	Flli.	Church.	
A7 KlZ,	"	Kief.	Milkmaids.	
A7 MoB,	"	Moscow.	The gate.	
A7 MoK,	"	"	Kremlin from the river.	
	"	"	Kremlin wall.	
	"	"	Great bell weighing 200 tons.	
	"	"	Russian troika, Sokolniki park.	
	"	"	Kremlin, where the czars sleep.	
	"	"	Kremlin wall and tower of sacred gate.	
	"	"	Tower of Ivan the Great and cathedral of arch angel Michael.	
633 WCr,	"	Odessa.	Wheat for export.	
	"	Solinen.	Wheeling salt to the stacks, salt fields.	
A7 SnH3,	"	St. Petersburg.	Hermitage. Malachite vase.	
735 Fl8p,	"	"	Statue of Peter the Great.	
A7 SnHl,	"	"	Hermitage. Statue of Mercury.	
A8 ChF6,	Norway.	Christiana.	Ancient church of Gol.	
	"	"	Old viking ship.	
	"	Dyreskard Pass.	Great zigzag loops of road.	
	"	Hardanger Vidda.	Herd of reindeer.	

EUROPE—Continued.

Norway. Hammerfest. The world's northernmost town.
637 AA5, ------ " Haukeli mountains. Girls tending cows and goats.
A8 LpZ, ----- " Lotefos. Norway's most famous waterfall.
A8 Su, ------- " Suledal portal.
" Spitzbergen. Midnight sun in July.
" Rjukanfos. Rainbow in spray.
636.3M Bn, ------- " Telemarken. Carding and spinning wool.
" Tromsoe. Unloading dried fish.
" Vassevangen. Children at play before terraced Tvinde waterfall.
" Brygsdal glacier.
" Lapland family at summer home.
A8 Z3, ------- " Loops of the Grotlid-marok road, mountains of western Norway.
A8 Z4, ------- " Ski-runners on Lake Bygdin.
A8 Z5, ------- " A mountain home.
A8 Z6, ------- " Standing saws in Norwegian saw-mill.
A8 Z7, ------- " Flat boat on the coast.
Sweden. Leksand. Church boat bringing families to church, Lake Siljan.
" " "Midsummer pole' raised at midnight, June 23rd.
" Stockholm. Where Gustavus Adolphus rests, Riddarholm's church.
" Wisby. Wind-power grist mill.
Netherlands. Delfthaven. Church where Pilgrim fathers prayed before embarking for America.
" Dordrecht. Peasants and milk cart.
A92 Z ------- " Holland. Quaint street in Dutch village.
A92 Z1, ------- " Dutch women unloading a boat of peat.
" Marken. Quaint costumes of village girls.
" Volendam. Beside the Zuyder Zee.
" Zeeland. A Goes farmer and three-wheeled cart.
" Miles of peaceful pastures.
637 BB13, ----- " Country women with milk pails on yokes.
A93 AnZ, -----Belgium. Antwerp. Starting out with the dog team.
633.2 FB2, ------ " Flax in stacks.
633.2 FB21, ----- " Preparing flax for spinning.
A94 Gr, --------Switzerland, Grindewald. Mountain chalet.
A94 GrZ, ------ " " Blowing the Alpine horn.
A94 LuB, ----- " Luzerne. Tunnel of Axenstrasse.
" " Bold Axenstrasse hewn from cliff 860 feet above lake.
A94 Pi, ------- " Mt. Pilatus. To the clouds by rail.
A94 Zb, ------- " Zermatt, looking toward the Rhone River.
A94 Zz, ------- " Gathering of great storm of 1888.
A95 AtA, -----Greece, Athens. Acropolis.
A95 AtA1, ---- " " From Parthenon.
" " Old and new, from Lykabettos.
A95 AtH, ----- " " Gymnasium of Hadrian, floor Mosaics of gymnasium.
A95 AtZ, ------ " " Steam street car.
722.8 Ad, ------- " " Theater of Dionysus, seats.
722.8 Ae2, ------ " " Erectheum, unfinished capital.
722.8 Ae21, ----- " " " from the east.
722.8 Ae22, ----- " " " Portico of the Caryatides.
722.8 Ae23, ----- " " " from Parthenon.
722.8 Ag2, ------ " " Gymnasium of Hadrain, columns.
722.8 A1, ------- " " Lantern of Diogenes.
722.8 Ap2, ------ " " Parthenon, fallen columns.
722.8 Ap21, ----- " " " from southeast.
722.8 Apr, ------ " " Propylaea, among the columns.
722.8 At, ------- " " Theseum, best preserved temple in Greece.
722.8 Aw, ------ " " Temple of the Winds.
A95 CqY, ----- " Corinth. Isthmus of Corinth ship canal, near Corinth.
722.8 Ct, ------- " " Temple of old Corinth.
A95 MgB, ----- " Mesolongion. Monument over Byron's heart.
A95 MgM, ---- " " Tomb of Markos Bozzaris.
" Sparta, where old Sparta stood.
Denmark, Copenhagen. Hall of the knights, where Danish sovereigns and nobles met. Rosenberg castle.

GEOGRAPHY AND TRAVEL—Continued.

EUROPE—Continued.

Denmark. Copenhagen. Fun for the boys and girls in their favorite play ground, Ostre Anlaeg.
" Hasley Packing prize butter for European markets.

ASIA.

China.

B1 PeZ, ------Pekin. Chinese saw mill.
" Magnificent marble bridge at imperial summer palace.
633.4 TZe, ------ " Making tea in rich native's home.
633.4 TeC, ------Hankow. Coolies unloading tea.
B1 ShT, -----Shanghai. Tea house.
Shang-hai-kwan. Great wall of China.
" Great wall of China, looking north.
722.1 Ct, -------Soo Chow. Leaning tower.
B1 Z2, --------Group of Chinese children.
Junk flotilla on the Peiho River.

Manchuria

633.4 TZm, -----Moukden. Tea seller on the streets of Moukden.
B18 Z, ---------Children of Manchuria.

Korea.

B19 SeZ, ------Seoul. A happy family in a thatched hut.

Japan.

633.4 TAm, -----Ashikubo. Ready for the harvest.
633.4M TBj, ------ " Girls rolling tea leaves by hand.
B2 At, -------Atami. Tramway connecting Atami and Odawara.
B2 FuA, ----- Fuji-San.
B2 Ha, -------Lake Haruna and Little Fuji.
B2 MaZ, -----Mara. Hauling timber for temple repairs.
633.1 RBJ, ------Mio-no-matsu-bara. Among the famous rice fields.
B2 Ni, --------Nikko. Fast express, a bullock train.
Osaka. Sacred lotos flowers in pond.
722.1 Jh, -------Kyoto. Higashi Hongwaugo, largest Buddhist temple in Japan.
633.4 TAJ1, -----Shizuoka. Tea fields of Shizuoka.
633.4 TAJ11, ---- " Tea on the uplands and rice on the lowlands.
633.4M TBj1, ----- " Sifting tea. Interior of tea factory.
B2 ToB, -----Tokyo. Circular bridge near Kameido temple.
722.1 Jo, ------- " Home of Count Okuma.
B2 Z, ---------Japanese saw mill.
B2 Z1, --------Coolies carrying heavy timbers.
B2 Z11, -------Little Japanese girls with babies on their backs.
B2 Z12, -------Japanese school children leave their shoes out of doors.
B2 Z13, -------Eating rice with chop sticks.
B2 Z14, -------Geisha girls out for an airing in rickshaws.
B2 Z15, -------School girls.
B2 Z2, --------Bamboo baskets, without bamboo Japanese would have to go out of business.
B2 Z21, -------Peasant women weaving.
B2 Z22, -------Sunrise on the Sea of Japan.
B2 Z24, -------Typical mountain hut in heart of old Japan.
B2 Z25, -------Cherry blossoms at entrance to Shinto temple.
B2 Z26, -------Chrysanthemum flower show.
PG ZEv, -----Ancient crater of Aso, largest in the world.
633.1 RAj11, ----Overlooking rice fields.
633.1 RAj, ------Transplanting rice shoots.
633.1 RBj12, ----Rice harvest, cutting the straw close to the ground
633.1 RBj11, ----Rice harvest. Homeward bound with golden yield.
633.1 RBj1, -----Peasant women heading rice with combs. Suruga bay
633.1 RBj13, ----Baling rice in the fields.
633.4 TBj, ------Girls picking tea on plantation. Uji.
633.4M TBj12, ----Selecting tea leaves.
633.4 TBj11, ----Firing tea.

GEOGRAPHY AND TRAVEL—Continued.

India.

B4 MoD, ----- Mount Abu. Dilwara temple, interior.
B4 MoD1, ---- " " Jaina women in temple.
726.1 Id, -------- " "
726.1 Id1, ------- " Interior of Dilwara temple.
B4 MoZ, ----- " Water carrier.
B4 AgT, ----- Agra. Tomb of a Mogul.
726.1 Ia, -------- Temple at Agra.
725.1 Ia1, ------- " Temple at Agra.
637 BB12, ----- Bhutanese milk men with curious bamboo jars.
633.1 RB1, ------ Cashmere. Shelling rice and gossiping with the neighbors.
Simla. Bringing wood from mountains.
Ulwar. Indian reet or bullock carriage used by ladies of rank.
726.1 Jr, -------- Rock temple.
Inflating bullock skin boats used on Sutlej River.
Elephants in timber yard lifting and hauling.

Ceylon.

B48 GaA, ----- Galle. Sea street.
B48 Z, --------- Singhalese girls.
633.1 RBe, ------ Country home and paddy field, natives harvesting rice.

Syria.

B69 BdA, ----- Beirut. Grotto of pigeons.
B69 BeZ, ------ Bethlehem mission school, a holiday.
722.7 Sj, -------- Baalbek. Interior of Temple of Jupiter.
B69 JaZ, ------ Jaffa. Bedouin women.
B69 RbZ, ------ Ramallah. Father and children showing costumes.
B69 Z, --------- Women grinding at mill.
Bread making in court of Syrian home.
637 DA26, ----- Churning butter in goat's skin, Palestine.

Siberia.

B7 Z, -------- Harvesting with mower drawn by camels, Siberia, Russia.

Burma.

Irrawaddy River, timber raft and floating home.
" School boys and priestly teacher.
633.1 RCb1, ----- Rangoon. Coolies unloading rice boats.
633.1 RCb, ------ Thousands of tons of rice unloaded by freight handlers.

Malay Peninsula.

633.5 CoAM, ---- Malay Peninsula. Cocoanut palm laden with ripened fruit.

Babylonia.

732 Bd, -------- Babylonia. Bismya. Statue of Da Udu. Thought to be oldest in world.
732 C, --------- " Chaldea. King Our-nind and family.

AFRICA.

Egypt.

C2 AsZ, ------ Assuan. Some children of the Bisharin camp.
722.2 Ab, ------- Abydos. Columns.
732 Lr, -------- Abu Simbel. Rameses II.
C2 CaB, ----- Cairo. Street scene.
C2 CaY1, ---- " Grounds of Ghezireh Palace Hotel, near Cairo.
C2 CaY11, --- " Ghezireh Palace Hotel.
C2 CaZ, ------ " Ship of Desert passing tomb of Moslem rulers.
" From Sadadin's Citadel.
" Greatest city of Africa.
722.2 EdH, ----- Edfu. Temples of Horus.
722.2 Gip, ------- Gizeh. Pyramids and Sphinx.
722.2 Gip1, ----- " Corner of Great or Cheops pyramid, where tourists ascend.
722.2 Gip11, ---- " Pyramid of Chepren.
C2 GiP, ------ " Second pyramid.
C2 GiZ, ------ " The Sphinx.
C2 GiZ1, ----- " Bedouins, their homes and the distant pyramids.
C2 GiZ2, ----- " The Desert.

GEOGRAPHY AND TRAVEL—Continued.

AFRICA—Continued.

722.2 KaT, ____Karnak. Temple. Colonnade in Hypostle hall.
722.2 KaZ, ____ " Sculptured wall.
ZB Os, ____Matariyeh. Ostrich and young.
C2 Mf, ____Medinet Habu. Hieroglyphics.
722.2 Pht, ____Philae. Ruins of temple at Philae.
722.2 Pht6, ____ " Pharoah's bed. Kiosk.
C2 RoZ, ____Rosetta. The Rosetta stone.
722.2 T1, ____Thebes. Temple of Luxor.
722.2 Tr, ____ " Ramesseum.
C2 Z2, ____Village on the Nile.
C2 Z21, ____Boats on the Nile.
C2 Z22, ____Camels at rest.
C2 Z3, ____Palms and wheat fields.
C2 Z4, ____Ancient Egyptian and Babylonian forms of writing
732 Fs, ____Sphinx at the gate.
732 Eo, ____Obliisk.
633.1 CB15, ____East Africa. Coffee picking in Moschi province.

South Central Africa.

C7 Z1, ____Congo. Musical instruments from the Congo. Drum.
C7 Z11, ____ " " " " Musical bow and sanza.
C7 Z12, ____ " " " " Harp-guitar.
C7 Z13, ____ " " " " Marimba.
C7 Z14, ____ " " " " Tam tam drum and rattle.
C7 Z15, ____ " " " " Trumpet.
C7 Z16, ____ " " " " Sanza and zither.

South Africa

C8 DuC, ____Durban, Natal. Jinrikisha and banyan tree, Victoria park.
C8 Zu, ____Zulu-land. A small denizen.

OCEANICA.

F8 GrC, ____Greenland. Cape York. Eskimo women.
F8 GrZ, ____ " Iceberg.
F8 GrZ1, ____ " Eskimo boy, Hello!
" Eskimos and their "toupiks," (summer tents).
Philippine Islands. Cebu. Load of manila hemp.
" " Drying hemp, the principal export.
633.1 RAp, ____ " Luzon. Delights of oriental farming, preparing ground for rice.
633.5 CoCp, ____ " Manilla. Rafts of cocoanuts.
" " Dugout hollowed from a single log; primitive navigation.
F14 Z, ____ " Street scene.
F14 Z1, ____ " Filipino children outside a native school house.
F14 Z11, ____ " Helping mamma iron clothes, a Filipino method.
F14 Z12, ____ " Home life of the Filipinos.
F14 Z13, ____ " Primitive carabao (water buffalo), cart wheels of one piece of wood.
F14 Z14, ____ " Filipino children in their play house.
" Pina cloth weaver at Molo near Iloilo.
633.5 CoBpl, ____ " Preparing cocoanuts for shipment.
633.1 RBp, ____ " Filipino children beating rice.
Java, Garoet. Band of alang-alang players, an ancient musical instrument of the natives.
F14 Z1, ____Australia, New South Wales. Carlatta arch.
F69 Z, ____Hawaii. A crater.
633.1 RAh, ____ " Waipahu. The paddy or rice field.

BOTANY.

TREES.

BT Ap1, ------Apple, branch with blossoms.
BT Ap2, ------Apple, tree killed by girdling of meadow mice.
BT BiP, ------Birch, group of beautiful Paper Birch trees.
BT Cg, --------Cherry, branch with fruit.
BT Cg2, -------Cherry, branch with blossoms.
BT Ch2, -------Chestnut, twigs stung by 17 year locust depositing eggs.
BT Ch3, -------Chestnut, branch with nuts.
BT Ch31, ------Chestnut, branch with blossoms.
BT Cy, --------Cypress, tree and "knees."
BT Do6, -------Dogwood, blossoms.
BT Do61, ------Dogwood, berries.
BT E1, --------Elm, avenue in Belmont, Mass.
BT E1A, ------Elm, American and spatter dock.
BT E1A2, -----Elm, American.
BT Gi, --------Ginkgo, avenue of trees, Washington, D. C.
BT Ha, -------Hawthorne, Penna., branch with fruit and glasses of jelly.
BT Hi, --------Hickory.
BT Ho, ------- Horse-chestnut, avenue of trees.
BT Li, --------Linden, avenue of trees.
BT Ma, -------Magnolia.
BT Mb, -------Maple, leaves showing autumn coloring.
BT Mb2, ------Maple, avenue of trees.
BT MbN, ------Maple, Norway, group of trees.
BT MbS, ------Maple, Silver, leaves and fruit.
BT MbS8, -----Maple, Sugar, avenue of trees.
BT Oa, -------Oak, large growth.
BT Oa1, -------Oak.
BT OaC, ------Oak, Chestnut, branch with acorns.
BT OaP, ------Oak, Pin.
BT OaS, ------Oak, Scarlet, natural graft.
BT OaZ, ------Oak, leaves.
BT OaZ1, -----Oak, tree tumor.
BT P, ---------Palm, Date, Pasadena, Cal.
BT Pe, --------Pear, tree girdled by meadow mice.
BT Pe2, -------Pear tree.
BT PiL, ------Pine, Long-leaved, branch, used for turpentine.
BT PiW2, -----Pine, White, branch with cones.
BT PiW21, ----Pine, White, group of trees.
BT PiW22, ----Pine, White, avenue at Wellesley, Mass.
BT PiW23, ----Pine, White, DuBois, Pa.
BT PiW24, ----Pine, White, seedlings.
BT PiZ, -------Pine, surface fire in pine forest, Cal.
BT Pl, --------Plum, tree in blossom, showing prodigality of nature.
BT PoW, -----Poplar, trees before trimming.
BT PoW1, ----Poplar, after trimming.
BT SpC, ------Spruce, Colorado blue.
BT SpN, ------Spruce, Norway, Austria.
BT Spr, ------Spruce, Red, group.
BT Sy, --------Sycamore, tree at Paxtang, Pa.
BT Tu, -------Tulip, trees at Westbury, L. I.
BT Wa, -------Walnut, removing tree, Harrisburg, Pa.
BT Wi, --------Willow, group.
BT Z1, --------Tree butchery, showing mutilated trees, Mechanicsburg, Pa
BT Z12, -------Tree butchery, School House, Harrisburg, Pa.
BT Z14, -------Tree butchery, Harrisburg, Pa.
BT Z15, -------Tree butchery.
BT Z16, -------Tree butchery, Westtown, Pa.
BT ZG, -------Graft, bud, two years old.
BT ZG1, -------Graft, bud.
BT ZG11, ------Graft, wedge.
BT ZG12, ------Graft, wedge, five years old.
BT ZG13, ------Graft.
BT ZH, -------Hedge, used to screen trolley track, Baltimore, Md.
BT ZT, -------Tree tumors.
BT Z5, --------Forest fire.
B2 Z25, -------Cherry trees in bloom, Japan.
BT BeA, ------Beech, American (Fagus ferruginea).
BT BiW, ------Birch, White (Betula populifolia).
BT Ch, --------Chestnut tree stung by 17 year cicada.
BT CyB, ------Cypress, Bald (Taxodium distichum).
BT Li2, -------Linden, branch with blossoms (Tilia americana).
BT Mb1, ------Maple, blossoms.

BOTANY—Continued.

FLOWERS.

BF Art, -------Arbutus, Trailing (Epigaea repens).
BF ArT2, -----Arbutus, Trailing (Epigaea repens).
BF As, --------Aster (Novae-angliae).
BF Az, --------Azalea (Azalea nudiflora).
BF Az1, -------Azalea (Azalea nudiflora).
BF Bf, --------Bee Balm (Monarda didyma).
BF BjS, -------Black-eyed Susan (Rudbeckia hirta).
BF Bk, --------Bloodroot (Sanguinaria).
BF BlB, -------Blue bells (Mertensia).
BF Bm1, -------Bluets (Houstonia).
BF CdW, -----Carrot, Wild (Daucus carota).
BF Ch, --------Chrysanthemums.
B2 Z2ó, ------ Chrysanthemums.
BF Ck, --------Clintonia borealis.
BF ClC, -------Clover, Crimson (Trifolium incarnatum).
BF ClR, -------Clover, Red (Trifolium pratense).
BF ClW, -------Clover, White (Trifolium repens).
BF ClW1, ----Clover, White (Trifolium repens).
BF Co, --------Columbine (Aquilegia).
BF CrW, -------Cranesbill, Wild (Geranium maculatum).
BF DbY, -------Day lily, Yellow (Hemerocallis flava).
BF DtB, -------Dutchman's Breeches (Dicentra cucullaria).
BF GoC, -------Golden Club (Orontium aquaticum).
BF Gp, --------Goldenrod (Solidago).
BF GpI, -------Goldenrod (Solidago).
BF GpI1, -----Goldenrod (Solidago).
BF He, --------Hellebore, False (Veratrum).
BF Hf, --------Hepatica (Hepatica triloba).
BF Hy, --------Hyacinths (Hyacinthus).
BF InP, -------Indian pipe (Monotropa uniflora).
BF InT, -------Indian turnip (Arisaema triphyllum).
BF InT1, -----Indian turnip (Arisaema triphyllum).
BF Jo, --------Joe-Pye Weed (Eupatorium).
BF LaS, -------Lady's slipper (Cypripedium acaule).
BF Lc, --------Laurel (Kalmia latifolia).
BF Le2, -------Laurel (Kalmia latifolia).
BF Lc21, ------Laurel (Kalmia latifolia).
BF LjT, -------Lily, Tiger (Lilium tigrinum).
BF LjV5, -----Lily of the Valley, Wild (Maianthemum).
BF LjV, -------Lily of the Valley (Convallaria).
BF Lm, --------Lizard's tail (Saururus cernuus).
BF Mb, --------Marigold, Marsh (Caltha).
BF Md, --------May Apple (Podophyllum).
BF Ml, --------Milk-weed (Asclepias cornuti).
BF MjI, -------Milk-weed (Asclepias cornuti).
BF MkF, -----Miterwort, False (Tiarella cordifolia).
BF Mp, --------Morning Glory (Ipomoea purpurea).
BF Nb, --------Nasturtium (Tropaeolum majus).
BF Os, --------Orchis (Habenaria).
BF PhB, -------Phlox, Blue (Phlox divaricata).
BF Pl, --------Pitcher plant (Sarraceniacae).
BF PlR, -------Plantain, Rattlesnake (Plantago).
BF PlR1, -----Plantain, Rattlesnake (Goodyera pubescans).
BF Pp, --------Polemonium.
BF Ps, --------Primrose (Primula veris).
BF Rh, --------Rhododendron.
BF RhI, -------Rhododendron.
BF RoW, -----Rose, Wild.
BF SbV, -------Saxifrage, virginiensis.
BF SkC, -------Skunk Cabbage (Symplocarpus foetidus).
BF SkC2, -----Skunk Cabbage (Symplocarpus foetidus).
BF SlB, --------Snakeroot, Black (Cimifuga racemosa).
BF Sm, --------Solomon's Seal (Polygonatum).
BF Snw, -------Sorrel, Wood (Oxalis acetosella).
BF Sp, --------Spatter-dock (Nuphar advena).
BF Sq, --------Spring beauty (Claytonia).
BF Th, --------Thimbleberry (Rubus odoratus).
BF TlG, -------Thistle, Globe (Echinops).
BF VlB, -------Violet, Blue (Viola).
BF VlBI, -----Violet, Blue.
BF DoV, -------Violet, Dog's-tooth (Erythronium americanum).
BF VlBl1, ----Violet, Blue (Viola).
BF WaR2, ----Wake Robin, (Trillium grandiflorum).

BOTANY—Continued.

FLOWERS—Continued.

BF WaR21, --Wake Robin, (Trillium undulatum).
BF WaR22, --Wake Robin, (Trillium).
BF WaR23, --Wake Robin, (Trillium).
BF Wd, -------Water lily, Victoria Regia, Phipp's Conservatory, Pittsburg.
BF Wd1, ------Water lily.
BF WdP, -----Water lily, Pink (Castalia).
BF WdS, -----Water lily, Sweet-scented (Nymphaea odorata caroliniana).
BF Yb, -------Yarrow (Achillea millefolium).
B2 ToB, ------Wisteria.
B2 Z26, -------Chrysanthemums. Flower show.
Sacred lotus flowers, Japan.

FERNS.

BC FeM, ------Fern, Maidenhair (Adiantum pedatum).
BC Li, --------Lichens (Lichenes).

ZOOLOGY.

INSECTS.

ZI A2, -------Ant, mound nest (Formicoidea).
ZI A21, ------Ant, vertical section of mound nest.
ZI An1, ------Ant-lion, larva (Myrmeleonidaoe).
ZI An11, -----Ant-lion, adult.
ZI An12, -----Ant-lion, pits.
ZI Be, ------ Bee, life and work of honey bee (Apis mellifica).
ZI Be2, ------Bees, a swarm.
ZI **BfG, ------**Beetle, Grape Root-worm (F. viticida).
ZI BfG2, -----Beetle, ground, (H. caliginosus).
ZI BfG21, ----Beetle, ground, (H. caliginosus).
ZI BfH, -----Beetle, Hermit Flower, life history (Scarabaedae).
ZI BfL, ------Beetle, Lady-bird (Hippodamia maculata).
ZI BfP1, --- Beetle, Plum-curculio (Plums showing "crescents").
ZI BfP11, ---Beetle, " (Conotrachelus nenuphar).
ZI BfR3, -----Beetle, Rose (Macrodactylus subspinosus).
BI BfR31, ----Beetle, Rose (eggs).
ZI Bc, -------Butterfly, Cabbage, (Pieris rapae).
ZI BCx, ----- " " caterpillar.
ZI BMo, ----- " Monarch (Anosia plexippus).
ZI BMox, --- " Monarch, caterpillar.
ZI BMo2, --- " Monarch, butterfly, caterpillar and chrysalis.
ZI BMr, ----- " Mourning Cloak, emerging from chrysalis (Vanessa antiope).
ZI BMrx, ---- " Mourning Cloak, caterpillar.
ZI BMr2, ---- " Mourning Cloak, chrysalis.
ZI BSu, ------ " Sulphur, common (Colias philodice).
ZI BSux, ---- " Sulphur, common, caterpillar.
ZI BSwB, ---- " Swallowtail, Black (Papilio asterias).
ZI BcwBx, -- " Swallowtail, Black, caterpillar.
ZI BSwG, ---- " Swallowtail, Green Clouded (Papilio troilus).
ZI **BSwGx, --** " Swallowtail, Green Clouded, caterpillar.
ZI BSwT, ---- " Swallowtail, Tiger (Papilio turnus).
ZI BSwTx, -- " Swallowtail, Tiger, caterpillar.
ZI CiS, ------Cicada. Transformation of 17 year locust (Cicada septendecim).
ZI CiT, ------ " Two stages (Cicada tibicen).
ZI FlI, ------Fly, Ichneumon, coeoons on larva of Sphinx moth (Inchneumonidae).
ZI Ga, -------Galls, various nut galls.
ZI GbS, ------Gall-louse, Spruce (C. abietis).
ZI Ho, -------Hornet, nest (Vespa).
ZI Z, --------Household insects, showing flies, roaches, beetles, bugs, moths and mosquitoes.
ZI MBr, -----Moth, Brown-tail (Euproctis chryorrhoea).
ZI MBrx, ---- " Brown-tail, larva and egg mass.
ZI MCe, ----- " Cecropia (Samia cecropia).
ZI MCex, ---- " Cecropia, caterpillar.
ZI MCey, ---- " Cecropia, chrysalis.
ZI MCe2, **----** " Cecropia, life history.
ZI MDa, ----- " Dagger, American (Apatela americana).
ZI MDax, ---- " Dagger, American, caterpillar.
ZI MFa2, --- " Fall Web-worm (Hyphantria cunea).

ZOOLOGY—Continued.

INSECTS—Continued.

ZI MFa21, ---Moth. Fall Web-worm, nest.
ZI MFoS, --- " Forester, Spotted (Alypia octomaculata).
ZI MFoSx, -- " Forester, Spotted, caterpillar.
ZI MFp, ----- " Fork-tail, caterpillar (Cerura cinera).
ZI MFpx, ---- " Fork-tail, caterpillar.
ZI MGe, ----- " Geometrid, at rest on bark of tree (Cymatophora).
ZI MGel, ---- " Geometer, larva (Geometridae).
ZI MGy, ----- " Gypsy, larva and egg mass (Porthetria dispar).
ZI MGy1, ---- " Gypsy, imago and pupa.
ZI MHi, ----- " Hickory Horn-devil (Citheronia regalis).
ZI MHix, ---- " Hickory Horn-devil, caterpillar.
ZI MHix2, --- " Hickory Horn-devil, young caterpillar.
ZI MIm, ----- " Imperial (Eacles imperialis).
ZI MImx, ---- " Imperial, caterpillar.
ZI MIol, ----- " Io, Emperor, male (Automeris io).
ZI MIol1, ---- " Io, Emperor, female.
ZI MIox, ---- " Io, Emperor, caterpillar.
ZI MIox1, --- " Io, Emperor, caterpillar.
ZI MIe, ------ " Leaf, at rest on bark of tree (Gastropacha americana).
ZI MLu, ----- " Luna, life history (Tropoea luna).
ZI MOa2, ---- " Yellow-necked Oak Worm (Datana ministra).
ZI MOa2x, --- " Yellow-necked Oak Worm, caterpillar.
ZI MPo, ----- " Polyphemus (Telea polyphemus).
ZI MPox, ---- " Polyphemus, caterpillar.
ZI MPox2, --- " Polyphemus, caterpillar spinning.
ZI MPoy, --- " Polyphemus, cocoon.
ZI MPr, ----- " Promethea, female (Callosamia promethea).
ZI MPr1, ---- " Promethea, male.
ZI MPrx, ---- " Promethea, caterpillar.
ZI MSa2, ---- " Saddle-back (Sabine stimulea).
ZI MSa2x, --- " Saddle-back, caterpillar.
ZI MScx, --- " Schizura, caterpillar (Schizura ipomoeae).
ZI MSd, ----- " Schizura (Schizura unicornis).
MI MSpE, --- " Sphinx, Elm (Ceratomia amyntor).
ZI MSpEx, - " Sphinx, Elm, caterpillar.
ZI MSpEy, -- " Sphinx, Elm, larva, last stage.
ZI MSpG, ---- " Sphinx, Green Grape-vine (Philampelus pandorus).
ZI MSpGx, --- " Sphinx, Green Grape-vine, caterpillar.
ZI MSpR, --- " Sphinx, Red Grape-vine (Philampelus achemon).
ZIMSpRx, ---- " Sphinx, Red Grape-vine, caterpillar.
ZI MSpS, ---- " Sphinx, Smerinthid (Smerinthus excaecatus).
ZI MSpSx, -- " Sphinx, Smerinthid, caterpillar.
ZI MSpT, ---- " Sphinx, Tomato (Protoparce sexta).
ZI MSpTx, - " Sphinx, Tomato, caterpillar.
ZI MTeA, --- " Tent-caterpillar, Apple, trails of silk left by larva (Malacosoma americana).
ZI MTeA1, -- " Tent-caterpillar, showing tents and worms.
ZI MTeAx, - " Tent-caterpillar, caterpillar.
ZI MTeAy, -- " Tent-caterpillar, eggs on twigs.
ZI MTeF, ---- " Tent-caterpillar, Forest (Clisiocampa disstra).
ZI MTu, ----- " Tussock, Female and eggs (Lymantriidae).
ZI MTul, ---- " Tussock (Hemerocampa).
ZI MunR, ---- " Underwing, Red (Catocala cara).
ZI MunR1, --- " Underwing, Red, at rest on bark of tree.
ZI MunY, ---- " Underwing, Yellow (Catocala neogama).
ZI MunY1, -- " Underwing, Yellow, at rest on bark of tree.
ZI Sc, --------San Jose Scale on apple (Aspidiotus perniciosus).
ZI Sp, -------Spider, on goldenrod, showing mimicry.
ZI Wa, -------Walking-stick (Diapheromera femorata).

BIRDS.

ZB BiA, ------Bittern, American (Botaurus lentiginosus).
ZB BiL, -----Bittern, Least, nest and eggs (Ardetta exilis).
ZB BiL2, -----Bittern, bird.
ZB BoW, -----Bob-white, group (Colinus virginianus).
ZB BoW2, ----Bob-white, nest and eggs.
ZB Bul, ------Bunting, Indigo (Passerina cyanea).
ZB Cb, -------Cardinal, male and female (Cardinalis Cardinalis).
ZB Ce, -------Cassique, Crested. Group.
ZB Ce, -------Catbird, nest and eggs (Galeosoptes carolinensis)
ZB Co, -------Cormorant, group (Phalacrocorax).
ZB CtA, ------Crow, young bird in nest (Corvus americanus).
ZB CtA2, ----Crow, nests in tree tops (Corvus americanus).

ZOOLOGY—Continued.

BIRDS—Continued.

ZB CtA3, -----Crow.
ZB DoM, -----Dove, Mourning. Nest and eggs. (Zenaidura macroura).
ZB DuA, -----Duck, group. "In danger."
ZB DuM, -----Duck, Mallard, group (Anas boschas).
ZB MeR1, ----Duck, Merganser, Red-breasted. Flock in flight (Merganser serrator).
ZB DuP, -----Duck, Pintail, group (Dafilo acuta).
ZB DuR, -----Duck, Redhead, group (Aythya americana).
ZB DuR3, ----Duck, Ruddy, group (Erismatura jamaicensis).
ZB EaB, -----Eagle, Bald, nest in tree (Haliaeetus leucocephalus).
ZB Fl, ------Flycatcher, group (Tyrannidae).
ZB FlC, -----Flycatcher, Crested (Myiarchus crinitus).
ZB GoA, -----Goldfinch, American (Spinus tristis).
ZB GqP, -----Grebe, Pied-billed (Podilymbus podiceps).
ZB GrR, -----Grouse, Ruffed (Bonasa umbellus).
ZB GrR1, ----Grouse, Canadian Ruffed. Group. (Bonasa umbellus togata).
ZB GuB, -----Gull, Bonaparte's (Larus philadelphia).
ZB GuH, -----Gull, Herring (Larus agrentatus).
ZB GuR, -----Gull, Ring-billed (Larus delawarensis).
ZB Hd, ------Heath hen. Bird and nest with eggs (Tympanuchus cupida).
ZB HeA, -----Heron, American egret, group. (Ardea egretta).
ZB HeB, -----Heron, Black-crowned Night (Nycticorax nevius).
ZB HeG, -----Heron, Green, young birds in nest (Butorides virescens).
ZB HeS, -----Heron, Snowy (Ardea candidissima).
ZB HuR, -----Hummingbird, Ruby-throated (Trochilus colubris).
ZB JaB, -----Jay, Blue (Cyanocitta cristata).
ZB KiB, -----Kingfisher, Belted (Ceryle alcyon).
ZB MaP, -----Martin, Purple (Progne subis).
ZB Ni, ------Nighthawk (Chardeiles virginianus).
ZB OrB, -----Oriole, Baltimore (Icterus galbula)
ZB Os, ------Ostrich, and young. Matariyeh, Egypt.
ZB Os1, -----Ostrich, just out. Baby ostriches, Cawston ostrich farm, Cal.
ZB OwB, -----Owl, Barn (Strix pratincola).
ZB OwB3, ----Owl, Burrowing (Speotyto cunicularia).
ZB OwS, -----Owl, Screech, young bird (Megascops asio).
ZB OwS12, ---Owl, Screech, bird in nest in tree.
ZB OwS2, ----Owl, Snowy (Nyctea nyctea).
ZB Pe, ------Pelican, group (Pelecanidae).
ZB Pfw, -----Pewee, Wood, nest with eggs (Contopus virens).
ZB Pi2, -----Pigeons. Pigeon farm at Los Angeles, Cal.
ZB PiF, -----Pigeon, Fantail (Columbidae).
ZB Pl, ------Plover, old bird and eggs (Charadriidae).
ZB Pl2, ------Plover, Semipalmated (Aegialitis semipalmata.)
ZB PrH, -----Prairie Hen, group (Tympanuchus americanus).
ZB RoA, -----Robin, American. Bird and nest on apple tree (Merula migratoria).
ZB RoA1, ----Robin, American. Young birds in nest (Merula migratoria).
ZB SaS, -----Sandpiper, spotted (Actitus onacularia).
ZB SpS, -----Sparrow, Song (Melospiza fasciata).
ZB SpS2, ----Sparrow, Song, nest and eggs.
ZB SpS21, ---Sparrow, Song, map showing distribution in North America.
ZB SpS22, ---Sparrow, Song, nest and eggs.
ZB SwB2, ----Swallow, Bank, nest and eggs (Clivicola riparia).
ZB SwB21, ---Swallow, Bank, nest holes in bank.
ZB SwB4, ----Swallow, Barn, bird and nest (Chelidon erythrogaster).
ZB TaS, -----Tanager, Scarlet (Piranga erythromelas).
ZB TeB, -----Teal, Blue-winged (Anas discors).
ZB TeC, -----Teal, Cinnamon, group (Anas cyanoptera).
ZB TfB, -----Tern, Black, young bird two weeks old (Hydrochelidon nigra).
ZB TfB2, ----Tern, young bird in nest.
ZB TfS, -----Tern, Sooty. Old bird, young and egg (Sterna fuliginosa).
ZB ThH, -----Thrush, Hermit (Turdus aonalaschkae pallasii).
ZB ThV, -----Thrush, Veery, feeding young (Turdus fuscescens).
ZB Tu, ------Turkey, Wild, on nest (Meleagris gallopavo).
ZB Tu2, -----Turkey, Wild, group.
ZB VIR, -----Vireo, Red-eyed, nest and eggs (Vireo olivaceus).
ZB WaP, -----Warbler, Prothonotary (Protonotaria citrea).
ZB WbB, -----Waxwing, Bohemian (Ampelus garrulis).
ZB WbC, -----Waxwing, Cedar (Ampelis cedrorum).
ZB WoA, -----Woodcock, American (Philohela minor).
ZB WpR, -----Woodpecker, Red-headed (Melanerpes erythrocephalus)

ZOOLOGY—Continued.

BIRDS—Continued.

ZB WpR2, ----Woodpecker, Red-headed, bird and nest.
ZB Z, ------Types of bills.
ZB Z2, ------Eggs of different birds, life size.
ZB Z4, ------Types of feather markings.
ZB Z41, ------Birds. Types of feet.
ZB Z6, ------Birds. Types of Duck and Grebe wings.
ZB Z8, ------Bird life on cactus desert.
ZB ChC, ----Chickade, Carolina (Parus carolinensis).
ZB GuH1, ----Gull, Herring (Larus argentatus), N. Y. Zoological Park.
ZB HaR, ----Hawk, Red-tailed (Buteo borealis).
ZB HeBl, ----Heron, Blue (Ardea herodias), N. Y. Zoological Park.
ZB OwH5, ----Owl, Great Horned. (Bubo virginianus).
Freak nest and eggs.
ZB Pd1, ----Pea-fowl (Paro cristatus), N. Y. Zoological Park.
ZB Pd11, ----Pea-fowl (Paro cristatus), N. Y. Zoological Park.
ZB ThV1, ----Thrush, Veery. (Turdus fuscescens). Nest and eggs.
ZB CrA, ----Crossbill, American. (Loxia curvirostra minor).
ZB EaH, ----Eagle, Harpy. (Thrasyartus harpyia).
ZB Fk, ------Flamingo. Phoenicopterus ruber). Birds and nests.
ZB PrH1, ----Prairie Hen, group. (Tympanuchus americanus).
ZB SpS3, ----Sparrow, Song. (Melaspiza fasciata). Nest and young.
ZB BiL21, ----Bittern, Least (Ardetta exilis).
ZB BlR, ----Blackbird, Red-winged (Agelaius phoeniceus).
ZB Bn, ------Bobolink (Dolichonyx oryzivorus).
ZB CqB, ----Creeper, Brown (Certhia familiaris americanus).
ZB GpP, ----Grackle, Purple (Quiscalus quiscula).
ZB GrP, ----Grosbeak, Pine and Rose-breasted (Pinicola enucleator) and (Habia ludoviciana).
ZB Kb, ------Kingbird (Tyrannus tyrannus).
ZB MeR, ----Merganser, Red-breasted (nest.) (Merganser serrator).
ZB MuZ, ----Murre and Kittiwakes (Uria troile) (Rissa tridactyla).
ZB OrO, ----Oriole, Orchard (Icterus spurius).
ZB Ost1, ----Ostrich, Trotting, Jacksonville, Fla.
ZB Ov, ------Oven-bird (Selurus aurocapillus).
ZB PfW1, ----Pewee, Wood (Contopus virens).
ZB Ph, ------Phoebe (Sayornis phoebe).
B69 BdA, ----Pigeons, Grotto of, Beirut, Syria.
ZB PjA, ----Pipit, American (nest). Alaska (Anthus pensilvanicus).
ZB PrH11, ----Prairie Hen, South Dakota (Tympanuchus americanus).
D94 Re, ------Sea Gulls on beach, Cal.
A18 Qz, ------Sea Gulls off Queenstown, Ireland.
ZB SwT, ----Swallow, Tree, near Montclair, N. J.
ZB Tg, ------Thrasher.
ZB TIT, ----Titmouse, Tufted (Parus bicolor).
ZB WaB, ----Warbler, Black-throated Blue (Dendroica coerulescens).
ZB WpY, ----Woodpecker, Yellow-bellied (Dryobates).
ZB YeM, ----Yellow-throat, Maryland (Goethlypis farmosa).

REPTILES.

Snakes

ZR A1, ------Alligator (Alligator mississippiensis).
ZR SB, ------Blacksnake (Zamensis constrictor).
ZR SCp, ----Copperhead (Anelstrodon contortrix).
ZR SF, ------Fox (Coluber vulpinus).
ZR SF22, ----Fox, swallowing egg, (Coluber vulpinus).
ZR SF22I, ---- " " " another view.
ZR SF222, ---- " " " another view.
ZR SF223, ---- " " " another view.
ZR SG, ------Garter (Eutoenia sirtalis).
ZR SHo, ----Hog-nosed (Heterodon platyrhinus).
ZR SM1, ----Milk, Snake and eggs (Ophibolus dollatus).
ZR SM1S, ----Milk, Southern, (Ophibolus dollatus).
ZR SP1, ----Pilot Blacksnake (Coluber obsoletus).
ZR SPj, ----Pine, with eggs (Pituaphis melanoleucus).
ZR SRdB, ----Rattle, Northern banded (Crotalus horridus).
ZR SRdD, ----Rattle, Diamond-backed. Head. (Crotalus adamanteus).
ZR SR1, ----Ribbon (Eutoenia saurita).
ZR SRj, ----Ring-necked (Diadophis punctatus).
ZR SWa, ----Water, Water snake swallowing Garter snake.

ZOOLOGY—Continued.

Amphibia.

ZA FTr, ------Frog, Tree, protective coloration (Hyla versicolor).
ZA FC, -------Frog, Common (Rana clamitans).
ZA FC1, ------Frog, Common, development.
ZA TC, -------Toad, Common (Bufo lentiginosus).
ZA LF, -------Frog, Leopard.

Turtles.

ZR TeD, -----Terrapin, Diamond-backed (Malacoclemmys palustris).
ZR Tep, ------Terrapin, Painted (Chrysemys picta).
ZR TeZ, ------Terrapin, eggs and young.
ZR ToG, ------Tortoise, Giant (Testudo vicini).
ZR TuH, -----Turtle, Hawk-bill, from which tortoise shell is made.

MAMMALS.

ZM ApG, -----Ape, Gibbon (Hylobates). N. Y. Zoological Park.
ZM ApP, ------Ape, Pig-tail (Macacus nemestrinus).
ZM BeB, ------Bear, Black. Cubs playing (Ursus americanus). N. Y. Zoological Park.
ZM BeB1, -----Bear, Black (Ursus americanus). N. Y. Zoological Park.
ZM BeG, ------Bear, Grizzly, Silver-tip (Ursus horribilus). N. Y. Zoological Park.
ZM BeKi, ----- Bear, Kodiak. (Ursus middendorffi). N. Y. Zoological Park
ZM BeK, ------Bear, Kodiak. " " " " "
ZM BeP, -----Bear, Polar (Ursus martimus), N. Y Zoological Park.
ZM BeS1, -----Bear, Syrian (Ursus syriacus). N. Y. Zoological Park
ZM BeS11, ----Bear, Syrian, Cubs. (Ursus syriacus). N. Y. Zoo. Park
ZM BiA, ------Bison, and calves (Bos americanus). N. Y. Zoological Park
EK ZA, --------Calf. "I'se Bringed You a Little Dolly, Bossy."
ZM CaB, ------Camel, Bactrian (Camelus bactrianus). N. Y. Zoo. Park.
IA AZ12, -----Camels. Harvesting with mower drawn by camels, Siberia, Russia.
EK ZC24, ------Cat. "No, 'oo tan't det down, pussy."
EK ZA3, ------Cat and two kittens. "Watching the dog."
ZM Ch, --------Chimpanzee (Anthropopitheeus troglodytes). N. Y. Zoological Park.
ZM DeA, ------Deer, Axis (Cervus axis). N. Y. Zoological Park.
ZM DeV2, -----Deer. Virginia. In Spring. (Odocoileus virginianus).
ZM DeV21, ----Deer, Virginia. In Summer.
ZM DeV22, ----Deer, Virginia. In Autumn.
ZM DeV23, ----Deer, Virginia. In Winter.
ZM DeV5, ----- Deer, Virginia. At Camp Hastings.
ZM DeV3, -----Deer, Virginia. N. Y. Zoological Park.
D98 Z1, --------Dog. Express at White Horse, Y. T., Alaska.
EK ZA11, -----Dog. Group of puppies.
EK ZA1, -------Dog. "You Look Like a Soldier, Major."
A93 AnZ, ------Dog. Starting out with the dog team, Antwerp, Belgium.
EK ZA511, ----Donkey. "We's Feedin' Our Bootiful Baby Burro."
ZM ElA, ------Elephant, African (Elephas africanus). N. Y. Zoo. Park.
ZM ElA1, -----Elephant, African. N. Y. Zoological Park.
ZM ElI, -------Elephant, Indian (Elephas indicus). N. Y. Zoological Park.
ZM El, --------Elephant, Head. (Elephantidoe).
ZM Em11, -----Elk (Alces machlis). N. Y. Zoological Park.
ZM Em1, ------Elk, American (Cervus canadensis). N. Y. Zoological Park
ZM FoA, -----Fox, Arctic (Vulpes lagopus). N. Y. Zoological Park.
ZM FoG, -----Fox, Gray (Urocyon cinereoargenteus).
ZM FoR, ------Fox, Red. Group. (Vulpes fulrus).
ZM FoR3, ----Fox, Red. Group. N. Y. Zoological Park.
ZM Gi, --------Giraffe (Giraffa camelopardalis). N. Y. Zoological Park.
ZM Gi1, -------Giraffe. N. Y Zoological Park.
EK ZC2, ------Goat. "Out to see the Races."
ZM GoM, ------Goat, Markhor (Capra falconeri). N. Y. Zoological Park.
ZM GoR, ------Goat, Rocky Mountain White (Oreamnos montanus). N. Y Zoological Park.
ZM GoR1, -----Goat, Rocky Mountain White. N. Y. Zoological Park.
ZM Hi, -------Hippopotamus (Hippopotamidae). N. Y. Zoological Park.
EK ZA51, ------Horse. "All Sorts and Sizes."
ZM Jb, -------Jaguar (Felis). Two young jaguars.
ZM Jb1, ------Jaguar (Felis onca). "Senor Lopez." N. Y. Zoological Park.
ZM Le, --------Leopard (Felis pardus).
ZM Le1, -------Leopard, Indian. Cub. (Felis pardus). N. Y. Zoo. Park.
ZM LeM, -----Leopard, Manchurian (Felis pardus). N. Y. Zoological Park.
ZM Li, --------Lion (Felis leo).

ZOOLOGY—Continued.

MAMMALS—Continued.

ZM LiB, ... Lion, Barbary, Cubs (Felis leo). N. Y. Zoological Park.
ZM Li2, ... Lioness (Felis leo).
ZM LyS, ... Lynx, Spotted (Lynx ruffus). N. Y. Zoological Park.
ZM LyB, ... Lynx, Bay (Lynx ruffus). A pet.
ZM Ma, ... Mastadon. Skeleton.
ZM Mo4, ... Monkey, Japanese Red-faced (Cercopithecidae). N. Y. Zoo. Park.
ZM Mos, ... Monkey, White-throated Sapajou (Cebus hypoleucus). N. Y. Zoological Park.
D286 CpZ, ... Mule. Harvesting Bananas. Costa Rica.
ZM Mu, ... Musk Ox, young female (Ovibus moschatus). N. Y Zoological Park.
ZM OpV, ... Opossum, Virginia (Didelphis virginiana).
ZM OpV2, ... Opossum, Virginia, and young.
ZM Or, ... Orang-Utang (Simia satyrus). N. Y. Zoological Park.
ZM Pi, ... Pig. "A Happy Family."
EK ZA5, ... Pony. "One of Pony's Tricks."
ZM Po, ... Porcupine (Erethizontidae).
ZM Pu, ... Puma (Felis concolor). N. Y. Zoological Park.
EK ZA7, ... Rabbit. "Isn't Our Stock Looking Fine?"
ZM Ra, ... Raccoon (Procyon lotor).
ZM Ra2, ... Raccoon and Albino.
ZM RhA, ... Rhinoceros, African (Rhinoceros bicornis).
ZM ShA, ... Sheep, Aoudad (Ovis tragelaphus). N. Y. Zoological Park.
ZM Sh1, ... Sheep. "The Favorites of the Flock."
D16 HaC, ... Sheep. Hartford, Conn. Sheep in Keeney Park.
ZM Sh12, ... Sheep, Grazing on the Plains, Montana.
ZM Sh, ... Sheep, In chestnut grove.
ZM SqF, ... Squirrel, Flying (Sciuropterus volans).
ZM SqG, ... Squirrel, Gray (Sciurus carolinensis).
ZM SqG1, ... Squirrel, Gray. N. Y. Zoological Park.
ZM TiM, ... Tiger, Male (Felis tigris). N. Y. Zoological Park.
ZM TiR, ... Tiger, Royal Bengal (Felis tigris).
ZM TiR1, ... Tiger, Royal Bengal.
ZM TiR11, ... Tiger, Royal Bengal. N. Y. Zoological Park.
ZM We, ... Weasel (Putorius ermina).
ZM WnG, ... Wolf, Gray. Group of young (Canis occidentalis).
ZM WnG1, ... Wolf, Gray. N. Y. Zoological Park.
ZM Wo, ... Woodchuck (Arctomys monax).
ZM Ze, ... Zebra (Equus zebra).
ZM Ze1, ... Zebra "
ZM BeG1, ... Bear, Grizzly, Yellowstone National Park.
ZM Bu, ... Buffalo, B. C., Canada.
C2 Z22, ... Camels at rest.
ZM Em, ... Elk, Wild (Cervus canadensis). Montana.
ZM FoR2, ... Fox, Red (Vulpes fulpes). Old and young.
ZM Ll, ... Llamas, pack-train.
ZM Mp, ... Moose (Alces americanus). N. Y. Zoological Park.
ZM Sh11, ... Sheep, Newton Hamilton, Pa.
ZM Sh13, ... Sheep raising among the Andes, Peru.
ZM WhP, ... Whale, Pilot.
F11 Z13, ... Water Buffalo, Philippine Islands.
Reindeer, Norway.

PROTECTIVE COLORATION.

ZI BMon, ... Butterfly, Monarch. Caterpillar. (Anasia plexippus).
ZI BMr, ... " Mourning-cloak emerging from chrysalis. (Vanessa antiopa).
ZI BMr2, ... " " Chrysalis. (Vanessa antiopa).
ZI BSux, ... " Sulphur. Caterpillar. (Colias philodice).
ZI BSwGx, ... " Green clouded swallowtail. Caterpillar. (Papalio troilus).
ZI BSwTx, ... " Tiger Swallowtail. (Caterpillar). (Papilio turnus).
ZI MFa21, ... Moth, Fall Web-worm. Nest. (Hyphantria cunea).
ZI MFoSx, ... " Spotted forester. (Alypia octamaculata).
ZI MGe, ... " Geomoter. (Cymatophora).
ZI MGe1, ... " " Larva. (Geometridae).
ZI MImx, ... " Imperial. Caterpillar. (Eacles imperialis).
ZI MLe, ... " Leaf. (Gastropacha americana).
ZI MPox, ... " Polyphemus. Caterpillar. (Telea polyphemus).
ZI MPox2, ... " " Caterpillar spinning. (Telea polyphemus).

ZOOLOGY—Continued.

PROTECTIVE COLORATION—Continued.

ZI MScx, ____Moth. Schizura ipomoeae. Caterpillar.
ZI MSpEx, __ " Elm Sphinx. Caterpillar. (Ceratomia amyntar).
ZI MSpEy, ____ " " Larva, last stage. (Ceratomia amyntor).
ZI MSpGx, ___ " Green grape-vine sphinx. Caterpillar. (Philampelus pandorus).
ZI MSpSx, ___ " Smerinthus sphinx. Caterpillar. (Smerinthus exeaetus).
ZI MUnR, ___ " Red Underwing. at rest on bark. (Catocala cara).
ZI MUnY, ___ " Yellow Underwing. (Catoeala neogama).
ZI M, _____Spider. On golden rod. mimiery.
ZI Wa, _____Walkingstick. Mimicry. (Diapheromera femorata).
ZA FC, _____Frog, Common. (Rana clamitans).
ZA FTr, _____ " Tree. (Hyla versieolor).
ZA ToC, _____Toad, eommon. (Bufo lentiginesus).
ZR A1, _____Alligator. (Alligator mississippiensis).
ZB ChC, _____Chiekadee. Carolina. Freak nest and eggs. (Parus earolinensisis).
ZB HaR, _____Hawk, Red-tailed. Young. (Buteo borealis).
ZB MeR, _____Merganser, Redbreasted. Nest. (Serrator).
ZB OwS, _____Owl, Screech Young bird. (Megascops asio).
ZB SpS, _____Sparrow, Song. (Melospza faseiata).
ZB ThV, _____Thrush, Veery. Feeding young. (Turdus fuscescens).
ZB Tu, _____Turkey, Wild on nest. (Meleagris galloparo silvestris).
ZM DeV3, _____Deer, Virginia. (Odocoileus virginianus).
ZM GoR, _____Goat. Roeky Mountain white. (Oreamnos montanus).
ZM SqGI, _____Squirrel, Gray. (Seiurus carolinensis).
ZM We, _____Weasel. (Putorius ermina).
ZM WnG, ____Wolf, Gray. Group of young. (Can's occidentalis).

GEOLOGY AND PHYSICAL GEOGRAPHY.

PLANETS.

D94 Z3, _____ Full Moon, California.
PG AC8, _____Meteorite. Willamette, Portland.
PG AC4, _____ " Gibeor.
PG AC11, _____ " Ahnighito, found at Cape York, Greenland
PG AC1, _____ " Seetion of Ahnighito.

ATMOSPHERE.

D48 DdA4, ____Clouds. Cirrus. Delaware River near Raven's Roek
D47 Ma3, _____ " Cirro Cumulus. Sunset from Maekinac Island.
B2 Z22, _____ " Strata Cumulus. Sunshine through elouds "Drawing Water." Vessel in distance showing curvature of earth.
D48 PhZ719, ___ " Cumulo Nimbus. Thunder clouds.
A9 4Z, _____ " Sea of elouds. Gathering of the great storm of July, 1888, Switzerland.
D286 Z1, _____ " Forming. Atmosphere eondensing. Tropieal verdure above the clouds, Costa Riea, C. A.
A94 PiR, _____ " Forming. To the elouds by rail, Mt. Pilatus, Switzerland.
D48 JuA21, ____Fog. Mists of early morning, Juniata River, Pa.
D48 CaZ11, ____ " Sun shining through moisture laden air. Heart of the Forest, Cambria County, Pa.
D48 CaZ1, _____ " "The breath of the morning," Cambria County, Pa.
D48 Ka, _____Frost. A frosty morning, Kane, Pa.
PG BBh, _____ " Hailstones found at Pittsburg, Pa.
D48 PiZ2, _____ " Snow scene, Pittsburg, Pa.
D48 Ka1, _____ " Winter's phantoms, Kane, Pa.
D47 NiC7, _____ " Frosted trees, Prospeet Park, Niagara Falls, N. Y.
PG BBfr, _____ " Pillars, Eaglesmere, Pa.
D88 Z21, _____Storms. Storm in the distanee, Cat Creek, San Luis Valley, Colorado.
D48 ChZ12, ____ " Work of the storm, Chester County, Pa.
D64 GaZ, _____ " Effeet of storm, Galveston, Texas.
D48 PhZ713, __Lightning. Lightning between clouds.
D48 PhG31, ____ " Striking the Tower of City Hall, Philadelphia.
D48 PhZ714, __ " Radial discharge.
D48 PhZ715, ___ " "Tree" or branehed diseharge.
D48 PhZ716, ___ " Ribbon lightning.

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

ATMOSPHERE—Continued.

D48 PhZ712, ___Lightning. Parallel discharge, following path of initial flash.
D48 PhZ711, __ " First photo of lightning taken to prove that discharge is wavy, not zigzag.
D48 PhZ718, __ " Artificial branched discharge, Holtz Machine spark.
D48 PhZ717, ___ " Statified lightning, taken from moving train, Montana.
D86 Z, _____ " Statified lightning, taken from moving train, Montana.
D84 Z, _____ " Ribbon lightning, taken from train crossing prairie of North Dakota.
D18 PhZ8, _____ " Brush discharge between poles of Holtz Machine.
D18 LgZ, _____ " The work of lightning, Lewisburg, Pa.
PG EDd11, ___Sand Dunes. Line of Sand Dunes, Columbia River, Oregon.
PG EDd, _____ " Structure of a Sand Dune, Dune Park, Ind.
PG EDd1, ____ " Effect of wind. Dunes near Bigg's Station, Oregon.
D91 Z161, _____ " Shore lines in miniature, Amer. River, Folsom, Cal.
C2 GIP, _____Desert. Second Pyramid, Egypt.
C2 GIZ2, _____ " Gizah, Egypt.
D59 LbZ, _____Tropical. Growth. Cocoanut Grove, Lake Worth, Fla
D59 LbZ1, _____ " " Banana Tree, Lake Worth, Fla.
D56 DiZ, _____ " Dismal Swamp, N. C., Southern margin near Elizabeth.
D12 A12, _____Snow Line. Looking down Spray Valley, Alberta, Canada.
D12 A11, _____ " Trail to Fairview and Saddleback Mountain, Alberta, Canada.
ZM Bu, _____ " The Buffalo in his snow-bound home, B. C., Canada.

WORK OF UNDERGROUND WATERS.

D61 Z1, _____Shoals. Water following Squaw shoals, Warrior River, Ala.
D88 Fi, _____Creek. Fish Creek, Col. Showing outcrops of creek.
D72 Z1, _____Stream. Entrance to Donaldson Cave, Indiana.
D68 Z, _____Course. Underground water course, Oklahoma.
D95 Z2, _____Stalactites and stalagmites. Great Gregon Caves, Old Nick's bedroom.
D18 HuZ4, ____ " " " Huntingdon, Pa.
F44 Z1, _____ " Carlatta arch, Tenolan Caves, New South Wales
D48 Ea, _____Caves. Eaglesmere, Pa.
D55 Nb, _____ " Natural Bridge, Va.
D88 Z24, _____ " Arch under Citadel Rock, Col.
D98 Z2, _____ " Seldovia village and mountain looking through Rock Cave, Alaska.
D87 Z11, _____ " Sinkhole in Minnekhata limestone near Cambria, Wyo.
D88 Z2, _____ Artesian Well. Lone Tree Well, San Luis Valley, Col.
D76 No, _____ " Flowing well belonging to Minnesota Hemp Co., Northfield, Minn.

DEVELOPMENT OF STREAMS, RIVERS AND VALLEYS.

D18 CeH, _____Glen. Hemlock Glen, Spruce Run, Centre County, Pa.
D48 GdG1, ____Infant Stream. Ganoga Creek, Lake Ganoga, Pa.
D11 MoA, ____Glacial " Mt. Sir Donald, B. C., Canada.
D56 ShA, ____Young " Big Creek near Sharptop, North Carolina.
D18 Po2, _____ " " Pool Quarry, Paradise Creek, Pa.
D18 CrP1, ____Valley Making. Pine Creek Gorge, Coudersport, Pa.
D48 CrP11, ____ " " Pine Creek Gorge from Four Mile.
D48 CnZ, _____ " " Old mill on Cocolamus Creek.
D18 PhY2, ____ " " On the Brandywine, near Philadelphia.
D48 GrZ1, ____ " " Near Nettle Hill, Greene County Pa.
D18 HuW, ____ " " Water Street Gap, Huntingdon, Pa.
D48 McMA, __ " " Mauch Chunk, Pa.
D14 Z, _____ " " Rock Strata forming natural steps, Montmorency River, Quebec, Canada.
D48 McM11, __ " " Mauch Chunk. Lehigh River and Bear Mt.
D48 LhN, ____ " " Lewistown Narrows, Lewistown, Pa.
D48 BuL, ____Valleys. Overlooking Bucks County from Langhorne.
A3 RhD, _____ " The Rhine from Drachenfels, Germany.
A2 LaA, _____ " Langdale Valley from Stock Ghyll Force, England.
A1 Ta, _____ " Valley of the Tay, Scotland.

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

DEVELOPMENT OF STREAMS, RIVERS AND VALLEYS—Continued.

D48 WaA, ----	Rivers.	Mature.	Allegheny River at Big Bend, Warren, Pa.
D48 PeS, ------	"	"	Juniata River. Peace Mountain.
D48 ReA, -----	"	"	Loop of the Schuylkill, Reading, Pa.
D48 DeA, ------	"	"	Delaware Water Gap.
D48 HaB, ------	"	Old Age.	Susquehanna River at Harrisburg.
D47 HuH, -----	"	"	Entrance to Highlands, Hudson River, N. Y.
D871 Ha, -------	"	Meanderer.	Hayden Valley, Yellowstone National Park.
D871 Ha1, ------	"	"	Trout Creek. Yellowstone Nat. Park.
D78 KaA, -----	"	Flood Plain.	Deluged East Bottoms, Kansas City, Mo.
D48 RnZ, ------	"	" "	Youghiogheny River.
D48 JoZ1, -----	"	" "	Johnstown, Pa.
D48 JoZ, ------	"	" "	" "
D53 WaZ, ------	Delta.	Alluvial Fan.	Base of artificial terrace, Washington, D. C.
D94 Z213, -----	Alluvial Conc.	Talus cones at base of bluff, California.	
D48 DeA2, ----	Water Gaps.	Delaware Water Gap.	
D48 DeI, ------	"	Delaware Water Gap, Indian Ladder Bluff.	
D48 DeA22, ----	"	Delaware Water Gap.	
D48 HaA, -----	"	Susquehanna Gap, from Harrisburg, Pa.	
D47 NiP, ------	Water Falls.	Niagara Falls.	
D88 DeM, -----	"	Meteor Falls, Colorado.	
D871 YcU, -----	"	Upper Falls, Yellowstone River, Yellowstone Park.	
D871 G1, -------	"	Rustic Falls, Glen Lake, Yellowstone Park.	
D61 Z13, ------	"	Falls of Black Creek, near Gadsden, Ala.	
D54 Ne1, -------	"	Falls of New River, West Virginia.	
D47 Z24, -------	"	Falls over Utica slate, Canajoharie, N. Y.	
D47 WbZ1, ---	"	Montour Falls, Watkins Glen, N. Y.	
A8 LpZ, ------	"	Lotefos, Norway's most famous falls.	
D48 DiW, ------	"	Winona Falls, Dingman's Ferry, Pa.	
D48 DiC2, -----	"	Falls in Child's Park, Dingman's Ferry, Pa.	
D48 DiB, ------	"	Bridal Veil Falls, Dingman's Ferry, Pa.	
D48 GdG, ------	"	Falls on Ganoga Creek, Lake Ganoga, Pa.	
D48 FaY, ------	"	Falls at Forksville, Eaglesmere, Pa.	
D48 DiC21, ----	"	Falls in Child's Park, Dingman's Ferry.	
D48 GdS12, ----	"	On the Sickler branch of Lake Ganoga, Pa.	
D48 GdS, ------	"	" " " " " " "	
D48 GdS1, -----	"	" " " " " " "	
D48 GdS11, ----	"	" " " " " " "	
D48 McT, -----	"	Terrace Cascade, Onoko Glen, Mauch Chunk, Pa.	
D48 McS3, -----	"	Spectre Cascade, Onoko Glen, Mauch Chunk, Pa.	
D48 LxH, -----	"	Harrison Wright Falls, Kitchen Creek, Luzerne County, Pa.	
D48 PoP, -----	"	Paradise Falls, Pocono, Pa.	
D48 WcZ, -----	"	Falls in Meigs Creek, Washington County, Pa.	
D48 WaY, -----	"	Bent Run, Warren, Pa.	
D92 OgY, ------	"	Cascade near Ogden, Utah.	
D47 NiG, ------	"	Niagara Falls in winter.	
D47 NiG2, ----	"	Niagara Falls, ice mountain from ice bridge	
D47 NiA, ------	"	Niagara Falls in winter.	
D47 Ge, -------	"	Middle Falls, Genesee River, Portage, N. Y.	
D15 SjQ, ------	"	Quiatchouan Falls, St. John, N. B., Canada.	
D96 SjA, ------	"	Shoshone Falls, Idaho.	
D94 YoV, -----	"	Vernal Falls and Rapids, Yosemite Valley, Cal.	
D47 NiA1, -----	Rapids.	Niagara Rapids.	
D47 NiR, ------	"	Niagara River, Rapids by moonlight.	
D47 NiW, -----	"	Whirlpool Rapids, Niagara Falls.	
D53 WaZ1, ----	"	Potomac River, 18 mi. n. w. of Washington, D. C.	
D53 WaZ11, ----	"	Potomac River.	

OCEAN.

D49 CaZ, -----	Breakers.	Cape May, N. J.
E5 CaZ, ------	Moonrise.	On the Pacific, Callao, Peru.
D49 AtZ, ------	Coasts.	Atlantic City, N. J.
D295 SaA, -----	"	Near Jan Juan, Porto Rico.
DI Z1, -------	"	Gaspe Coast, Canada.

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

OCEAN—Continued.

D11 Fa, -------	Promontories.		From Ames' Knob to Fox Island, Maine.
E5 MoA, -----	"		The Surf at Mollendo, Peru.
E5 MoA1, -----	"		" " "
E5 MoA11, ---	"		" " "
E5 MoA12, --	"		" " "
A6 Gi, --------	"		Rock of Gibraltar.
A19 Mo, -------	"		Monaco.
B69 BdA, -----	"		Grotto of the Pigeons, Beyrout, Syria.
D91 SfG, ------	"		Seal Rocks by moonlight, San Francisco, Cal.
A8 Su, -------	Fiord Coast,		Suledal Portal, Norway.

LAKES.

D95 CrA, -----	Crater.		Crater Lake, Oregon.
D95 Cr12, ------	"		Crater Lake, Oregon, from Mt. Scott.
D95 Cr11, -----	"		Crater Lake, Oregon, near Victor Rock.
D95 Cr1, ------	"		Model of Crater Lake, Oregon.
D18 Gd1, ------	Glacial.		Lake Ganoga, Pa.
D18 EaA, ------	"		Lake Pano, Eaglesmere, Pa.
D91 YoM, -----	"		Mirror Lake, Yosemite Valley, Cal.
D17 Z25, ------	"		Shingle beach, near Olcott, Lake Ontario, N. Y.
D12 A1L, -----	"		Lake Louise, Alberta, Canada.

GLACIERS.

D11 MoA21, ---	Forming of		Mt. Sir Donald, B. C., Canada.
PG DB3, -----	"		Glacier des Bossons, Chamonix, France.
A1 Ch1, ------	"		Village of Chamonix from Trail to the Brevent, France.
A8 ByZ, ------	Neve.		Lake Bygdia, Jotunheim Region, Norway.
D11 Z, -------	"		Mt. Avalanche in the distance, Glacier, B. C., Canada.
PG DB11, ----	Seracs.		Illecillewaet Glacier, B. C., Canada.
PG DB1, ----	Crevasse.		A fathomless crevasse, Illecillewaet Glacier, B. C
A1 Ch11, -----	Moraines.		Medial and Lateral. Mer de Glace, France.
PG DB8, ------	"		Terminal. Wapta Glacier, Yoho Valley, B. C., Canada.
D1 Z -------	Material Carried by Glaciers.		Victoria Glacier, Canada.
D98 GIR, ------	Glacier at Ocean's edge.		Where icebergs are made. Glacier Bay, Alaska.
D98 Z21, ------	Glacier.		Columbia Glacier, Prince William Sound, Alaska.
D98 GIZ, ------	Icebergs.		Glacier Bay, Alaska.
F8 GrZ, ------	"		An Iceberg. Greenland.
D18 EaF, -----	Deposits.		Fat Man's Squeeze, Eaglesmere, Pa.
D18 WbZ21, --	"		Glacial topography, Russel, Warren County, Pa.
D18 CoZ, ------	"		Terminal Moraines. Near Coles Creek, Columbia County, Pa.
D18 MnZ12, --	"	"	" Near Saylorsburg, Monroe County, Pa.
D18 MnZ11, ----	"	"	" Pocono plateau, Monroe County, Pa.
D18 MnZ11, ----	"	"	" Northampton County, Pa.
D18 MnZ15, ---	"	"	" Cherry Valley, Monroe County, Pa.
PG DC, ------	"	Lateral	" Eaglesmere, Pa.
D18 LxZ, ------	"	Transported Boulder.	On Penobscot Mountain, Luzerne County, Pa.
D18 DeZ, ------	Grooves and striae.		Table Rock, Delaware Water Gap.
D77 NoZ, -----	"	"	Glaciated boulder, Norway, Iowa.
D18 NnZ12, ----	"	"	Creep striae, Bangor, Northampton County, Pa.
D18 MnZ17, ----	"	"	Glacial striae, Godfrey's ridge, Monroe County, Pa.
D18 Mn716, ---	"	"	Near Fox Gap, Monroe County, Pa.
D18 NnZ13, ----	"	"	Boulder at Bangor, Northampton Co., Pa.
D18 NnZ1, -----	Glacial Till.		Bangor slate quarry, Northampton County, Pa.
D18 WbZ245, --	"		Glacial gravel at Russel, Warren County, Pa.
D11 Z23, ------	"		Gravel pit at Freeport, Maine.
D18 MnZ1, -----	Kames.		Cherry Valley, Monroe County, Pa.
D11 Z21, ------	Kettle Holes.		Kettle hole in esker, Danforth, Maine
D18 MnZ11, ----	"		Cherry Valley, Monroe County, Pa.
D18 MnZ13, ----	"		" " "

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

VOLCANOES.

D2 ChS, ------	Cones in distance.	"Old Popocatepelt," Cholula, Mexico.
B2 Ha, -------	"	Lake Haruna and little Fuji, Japan.
A5 NaA, ------	"	Birds eye view of Naples, Italy.
B2 FuA, -----	"	Fuji San, Japan.
D98 WrA, -----	Aetive.	Mt. Wrangell, Alaska.
A5 Vg, -------	"	Vesuvius in eruption.
D95 Z, --------	Craters.	Jordan eraters, Oregon.
A5 Li, --------	"	Crater of voleano, Lipari Islands, Italy.
F69 Z ---------	"	A erater, Hawaii.
PG EEv, -----	"	Aneient erater of Aso, Japan. Largest in world.
A5 Vg1, ------	Lava Fields.	Base of Vesuvius, Italy.
D98 SiK, ------	"	Lava flows. Kruzof Island, Sitka, Alaska.
D94 Z211, ------	"	Lava field 10 miles from Lassen Peak, Cal.
D94 Z21, -------	"	Edge of lava flow, Lassen Peak, Cal
D94 Z217, ------	"	Detrital slope, from Crater in Clayton Valley, Cal.
D298 SbW, -----	Desolation.	Subsidised area where Wallibou Village formerly stood, St. Vincent, B. W. I
D298 MaA, -----	"	St. Pierre, Prostrate and Lonely. Martinique, F. W. I.
D298 SbR, ------	"	Crumbling Ash Deposits along Rabaeea River, St. Vineent, B. W. I.

GEYSERS.

D871 O1, -------	Geysers.	Old Faithful Geyser, Yellowstone National Park.
D871 UpA, ------	"	View of Upper Geyser Basin. Yellowstone National Park.
D871 No, -------	"	"Growler," "Hurrieane," and "Old Constant," Yellowstone National Park.
PG DA, --------	"	Probably erater of geyser in Yellowstone Park.
D871 Fo, -------	"	Mouth of Fountain Geyser just before eruption, Yellowstone National Park.
D871 Fo1, ------	"	Paint Pots near Fountain Geyser, Yellowstone National Park.
D871 Mb1, ------	"	Mammoth Hot Springs, Lower Basin, Yellowstone National Park.
D871 Mb, -------	"	Cleopatra Terraee, Mammoth Hot Springs, Yellowstone National Park.

EARTHQUAKES.

D94 SfB1, -----	Earthquake.	Howard Street, San Franeiseo, Earthquake of 1906.
D94 Z16, -------	Fissures.	Main fault between Pt. Reyes Station and Olema, Earthquake of 1906, California.
D94 SfB, -------	"	Union Street rent by earthquake, San Franeisco, Cal.
D57 ChZ, ------	Result of Earthquake of 1886, Charleston, S. C.	
D57 ChZ1, -----	" " " " "	Craterlet.
D57 ChZ11, ----	" " " " "	Appearanee in 1905 of eraterlet eaused by earthquake.
D57 ChZ112, --	"	Earthquake of 1886, Charleston, N. C. Charaeteristie wreek.
D78 Z1, --------	"	Gum and Cypress growth in New Madrid earthquake area since earthquake.

CANYONS.

D91 Gr1, ------	Canyons.	Grand Canyon, Arizona.
D88 MfN, ------	"	View in Navajo Canyon, Colorado.
D91 Gr11, ------	"	Grand Canyon, Arizona from Bright Angel Hotel.

EROSION.

D86 Z2, --------	Erosion.	Eroded earboniferous sandstone, Livingston, Mon.
D84 Wi, -------	"	Bad Lands south of Missouri River, Williston N. D.
D71 Z1, -------	"	Typieal seetion of till, Butler County, Ohio.

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

EROSION—Continued.

IN	LA13, -----	Erosion.	Furrowed slope resulting from freshets due to the removal of timber.
D88	Z25, ------	"	Landslide topography, Colorado.
D88	B1, -------	"	Black Canyon of the Gunnison, Colorado
D88	CoM, -----	"	Monument Park, Colorado Springs, Col.
D88	GaB, -----	"	Balanced Rock, Garden of the Gods, Colorado.
D95	Z1, -------	"	Eroded territory, Lake beds, Owyhee River, Oregon.
D95	Z11, ------	"	Eroded tertiary Lake beds, Owyhee River, Oregon.
D91	Gr, ------	"	Grand Canyon seen from Grand View, Arizona.
D11	Z11, ------	"	Water in joint cracks in granite, Jonesboro, Maine.
D17	LpZ, ------	"	Erosion topography of Montauk drift, Long Is., N. Y.
IN	DZ1, ------	"	Hillside affected by smoke and fumes, Coke Region.
D95	Z13, ------	"	Rain and wind sculpture, near Price, Oregon.
D18	EaT, ------	"	Ticklish Rock, Eagiesmere, Pa.
D75	Z, -------	"	Profile Rock, Lake Mendota, Wisconsin.

WEATHERING.

D61	Z12, ------	Weathering.	Spheriodal weathering in sandstone, near Linn's Crossing, Alabama.
D18	MpJ, ------	"	Jack's Narrows, Mt. Union, Pa.
PG	EBw2I, ---	"	Differential weathering, in fossil region of Wyoming.
PG	EBw, -----	"	Rocks at Milton, Pa.
PG	EBwI, ----	"	Rocks disintegrated by frost and weather.
PG	EPn, ------	"	Nodules in sandstone, near Lewisburg, Pa.
D18	EaZ2, -----	Pot Holes.	Eagiesmere, Pa.
D94	Z2I2, ------	"	Glacial pot-hole near Tuolmne meadows, Cal.

STRATAS.

D11	Z, -------	Rock Strata	Forming Natnral Steos, Montmorency River, Quebec, Canada.
D13	Z, -------	Marble Quarry	near Proctor, Vermont.
IN	CAs1, -----	Surface coal	strippings, Shenandoah, Pa.
IN	CAI, -----	Outcropping	of coal veins near earth's surface, Scranton, Pa.
IN	CAs11, ----	Kohinoor Colliery,	mammoth coal vein, Shenandoah, Pa.
D18	HeZI2, ----	Workings at Holywood Colliery,	Hazleton, Pa.
PG	EPs22, ----	Vertleal. Strata,	near Mifflin, Pa.
PG	EPs23, --	" "	" "
D87	Df, ------	Devil's Slide,	near entrance to Yellowstone Park.
D18	DaA -----	Mountain forming.	Dauphin Mountain, Dauphin Pa.
PG	EPs2I, ---	Antieline.	Below Mifflin, Pa.
D52	Z1, -------	"	Banks of C. & O. Canal near Hancock, Maryland.
D18	SeZ, ------	"	On the Schuylkill, above Port Clinton, Schuylkill County, Pa.
PG	EPs2, -----	Syncline.	Below Mifflin, Pa.
D18	HeZ11, ----	"	Hollywood quarry, Hazleton, Pa.
PG	EPs, ------	Pending.	Below Mifflin, Pa.
D18	ScZ11, ----	Creep.	Cut on Schuylkill Valley R. R., Schuylkill Co., Pa.
D18	SdY4, -----	Nay Aug Tunnel,	Scranton, Pa.
D18	MoZ12, --	Rocks in R. R. cut,	Lafayette Station, Montgomery County, Pa.
D17	WbZ, ------	Stratified bedding-planes,	Watkins Glen, N. Y.
D98	Z211, -----	Fold.	Jurassic Rocks, Alaska.
D18	LfS, ------	Old quarry,	Lehigh County, Pa.
D61	Z11, ------	Faults.	Minor overthrust in shale, near Pratt City, Ala.
D54	Z, -------	"	Overthrust in Tunnel on N. & W. R. R., West Va.
D11	Z, -------	"	Gardiner Clay, East shore of Cape Cod, Mass.
D11	Z22, ------	Dike.	Dike of granite in slate, Biddeford, Maine.
D91	Z216, -----	Folded Cambria	strata. Deep Spring Valley, Cal.
D87	Z1, -------	Devil's Tower,	Belle Fourche River, Wyo.
D88	Z22, ------	Joints.	Polygonal jointing in White Rock, Mecker Col.
PG	EPj, ------	"	Joint planes, Cayuga Lake, N. Y.

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

IGNEOUS ROCKS.

D93 Z12, ——Volcanic roeks near Pahroe Spring, Nevada.
D48 WcZ112, —Burned roeks, Fayette City, Washington County, Pa.
D93 Z1, ——Tufa Tower on shore of Winnemueea Lake, Nevada.
D93 Py1, ——Tufa Towers on shore of Pyramid Lake, Nevada.
D93 Py, ——Caleareous tufa from waters of Lake Lahontan, Nevada.
D41 Z1. ——Granites. Horizontal jointing in a granite quarry near Sullivan, Maine.
D43 PrM, —— " Great Marble Quarry at Proetor, Vermont.
D95 Z12, ——Basalts. Canyon of Crooked River, Oregon.
A15 GiL, —— " The Loom, Giant's Causeway, Ireland.
A15 Gi, —— " Giant's Causeway, Ireland.

SEDIMENTARY ROCKS.

D48 Z91, ——Shales. Bed of red Catskill shale near Allegrippus, Pa.
D48 Z916, —— " Chemung shale and sandstone, near Landes, Pa.
D48 AnZ1, —— " Munda shale and thin sandstone, Altoona, Pa.
D48 AnZ11, —— " " " " "
D48 NoY, —— " Red shale, Shikellimy's face in rock, Northumberland, Pa.
D48 Wc11, ——Sandstones. On Fish Pot Run, Washington County, Pa.
D48 HuY, —— " Oriskany sandstone, Huntingdon, Pa.
D48 ClZ1, —— " Sandstone quarries, Janesville, Clearfield Co.,
D48 HuP, —— " Pulpit Roeks, old stage route, Huntingdon, Pa.
D48 ClZ11, —— " Mahoning sandstone, Clearfield County, Pa.
D48 AsZ, —— " Pottsville sandstone, near Dayton, Armstrong County, Pa.
D47 Z2, —— " Medina sandstone, New York.
D48 Z915, —— " Bloeks of sandstone, Gallitzin, Pa.
D48 GrZ. —— " Waynesburg sandstone, Durbin, Greene Co., Pa.
D92 Z, ——Conglomerate. Red eonglomerate in canyon near Parowan Lake, Utah.
D48 Z911, —— " Boulders, Rhine Run, Pa.
D48 Z912, —— " Block of Sub-Olean conglomerate. Glade, Pa.
D48 WbZ244, —— " Knapp conglomerate, Big Bend, Warren Co., Pa.
D55 Le, —— " Valley of Newark Conglomerate, Leesburg, Va.
D47 Rn11, —— " Roek City, N. Y.
D47 Rn14, —— " The Flatiron, Roek City, N. Y.
D47 Rn13, —— " Rock City, N. Y.
D47 Rn1, —— " Twin sister's rocks, Roek City, N. Y.
D47 Rn12, —— " Below the roeks, Rock City, N. Y.
D47 Rn, —— " Lone Rock, Roek City, N. Y.
D48 BeR, —— " Rauseh's gravel quarry, Bethlehem, Pa.
D43 Z14, ——Limestone. Seams in limestone filled with cale-spar, Highgate Springs, Vermont.
D48 Z914, —— " Siliceous limestone at Allegrippus, Pa
D48 Z913, —— " " " on Bell's Gap R. R., Pa.
D48 Z917, —— " " " at McCrea furnace, Eddyville, Pa.
D48 NmZ, —— " Limestone cuts on Schuylkill Valley R. R., Norristown, Pa.
D48 CaZ, —— " Silieeous limestone, Conemaugh River, Cambria County, Pa.
D48 AsZ11, —— " Near Cochran's Mills, Armstrong County, Pa.
D69 Z. —— " Contorted Cambrian limestone, Kentueky.
D84 OaZ, —— " Cliffs near Oakdale, North Dakota.
D48 LfJ1, ——Dolomites. Dolomite bed near Jordan Bridge, Lehigh Co., Pa.
D61 Z11, —— " Knox dolomite, near Thomas, Ala.
D61 Z15, —— " " Dolcita Quarry, Ala.
D48 FdN, ——Clay. Clay pits of New Geneva, Fayette County, Pa.
D48 ClZ. —— " Fire elay, near Susquehanna Bridge, Clearfield Co.
D48 ChZ1, ——Kaolin. Works in New Garden Township, Chester County, Pa.
D48 Db112, —— " Works in Delaware County, Pa.
D48 MoL, ——Soapstone. Quarry at Lafayette, Montgomery Co., Pa.
IM IA12, ——Iron. Steam shovel at work, Burt Mine, Mesabi Range, Minn.

GEOLOGY AND PHYSICAL GEOGRAPHY—Continued.

SEDIMENTARY ROCKS—Continued.

D18 MoZ1, ____Gneiss. Contorted gneiss, Spring Mill, Montgomery County, Pa.
D18 MoZ13, ____ " " " near Lafayette Station, Montgomery County, Pa.
D18 ChZ11, ____Boulders. Trap boulders, French Creek Falls, Chester Co., Pa.

FOSSILS.

D51 Z1, _____Fossils. Pseudopecopteris obtusiloba, West Va.
D51 Z11, _____ " " " "
D61 Z, _____ " Sphenopteris pendulata, Cordova, Ala.
IN CZ11, _____ " Fossils from anthracite coal beds.
IN CZ, _____ " Stump standing as it grew in coal measures, Glasgow, Scotland.
D96 CoZ, _____ " Fossil coal tree near Coalgate, Oklahoma.
IN CZ1, _____ " A carboniferous forest.
D87 Z1, _____ " Fossil tree trunks, Yellowstone Park.
D91 PeL, _____ " Famous Log Bridge, Petrified Forest, Arizona.
D91 PeZ, _____ " In the Petrified Forests of Arizona.
D18 Z9, _____ " Slate with Lepidodendron, Bell's Gap, Pa.
D17 Z21, _____ " Natural casts of Atrypa spinosa, Spirifer, Rhynchonella, and Pelicypods, New York.
D94 Z2, _____ " Slab of Astrodopsis tumidus, Cal.
D18 BdZ, _____ " Eurypterus mansfieldi, Beaver County, Pa.

MAPS.

D18 6, _____Map. Relief Map of Pennsylvania
D18 3, _____ " Economic and geologic map of Pennsylvania.
D7, _____ " Map showing area drained by Ohio River and its tributaries.
D3 Z1, _____ " Coal map of the United States.

CAVES.

D18 HnZ1, ____Stalactites and Stalagmites, Huntingdon.
D95 Z2, _____Great Oregon Cave, Oregon.
D98 Z2, _____Alaska. Seldovia village and mountains looking through rock cave.
F11 Z1, _____New South Wales. Carlatta Arch, Jenolan Caves.
D18 CrI, _____Sweeden Valley Ice Cave, near Coudersport, Pa.
_____Dendritic stalagmites in a limestone cave, Grand Canon of Arizona.
_____Fingal's Cave, looking from entrance into its mysterious depths, Staffa, Scotland.

HISTORY.

ANCIENT HISTORY.

732 Er, _____Egypt. Rameses II at Abu Simbel.
732 Es, _____ " Sphinx at Gate.
C2 GIZ1, _____ " Gizeh. Bedoins.
C2 Mf, _____ " Medinet Habu, Heiroglyphics.
C2 RoZ, _____ " Rosetta stone.
722.2 EdH, _____ " Edfu. Temple of Horus.
722.2 GiP, _____ " Gizeh. Pyramids and sphinx.
722.2 GIPH, _____ " Gizeh. Pyramid of Chephren.
722.2 KaT, _____ " Karnak. Hypostyle hall in temple.
722.2 Pht, _____ " Philae. Ruins of temple.
722.2 Pht6, _____ " " Pharoah's bed.
722.2 Th, _____ " Thebes. Temple of Luxor.
722.2 Tr, _____ " " Ramesseum.
C2 Z1, _____ " Ancient Egyptian and Babylonian forms of writing.
722.7 Si, _____Syria. Baalbek. Interior of temple of Jupiter.
722.1 CT, _____China. Soo-Chow. Leaning Tower.
_____ " Looking north along China's great wall.
_____ " China's old barrier against Tartar hordes.' (Wall.)
B2 FuA, _____Japan. Fuji-San. Kyoto Higashi Hongwanji, largest Buddhist temple in Japan.
B1 MoD, _____India. Mount Abu. Interior of Dilwara Temple.
B1 MoD1, _____ " " " Jaina women worshipping in temple.
726.1 Id, _____ " " " Namneth temple.
726.1 Id1, _____ " " " Interior of Namneth temple.
726.1 Ir, _____ " Rock Temple.

HISTORY—Continued.

ANCIENT HISTORY—Continued.

722.8 Ad, ——— Greece. Athens. Theatre of Dionysus.
722.8 Ae21, ——— " " Erectheum from the east.
722.8 Ae22, ——— " " " Portico of the Caryatides.
722.8 Ag2, ——— " " Gymnasium of Hadrian.
722.8 AL, ——— " " Lantern of Diogenes.
722.8 A, ——— " " Parthenon from south east.
722.8 Apr, ——— " " Propylaea, among the columns.
722.8 At, ——— " " Theseum. Best preserved temple in Greece.
722.8 Aw, ——— " " Temple of the Winds.
A95 AtA, ——— " " Acropolis.
A95 AtA1, ——— " " From the Parthenon.
——— " " Old and new.
——— " Where old Sparta stood.
722.7 Rc, ——— Rome. Arch of Constantine.
722.7 Rf1, ——— " Forum. Columns of temple of Saturn.
722.7 Rf5, ——— " Forum of Trajan.
722.7 Rt, ——— " Arch of Titus.
A5 RoD3, ——— " Chamber in Cappuccim Catacombs.
——— " Interior of Colosseum.
——— " Aqueduct of Claudius.
——— " Venerable tombs and Appian Way.
——— " The Colosseum.
A58 SyA, ——— Syracuse. Ruins of a Greek temple.
——— Norway. Old Viking Ship.
D2 ChS, ——— Mexico. Cholula. Sacred Shrine on Cholula.
D2 MeZ, ——— " Home of the Peon.
732.9 Mm, ——— " Some of the best examples of Maya sculpture.
——— " Mexico City. Calendar stone, discovered 1790.
——— " Mitla. Hall of Monolith Columns. Ruins.
732.9 He1, ——— Honduras. Copan stele showing sculpture.
——— Peru. Cuzo. Masonry of Incas without tools or mortar.
——— " " Terrace walls of fort. 16th Century. Where Spaniards defeated Incas.
——— " " Old Spanish aqueduct.
——— Panama. Christobel. Statue of Columbus.

MEDIEVAL HISTORY.

A2 WbG, ——— England. Warwick Castle. Finest feudal castle in England.
723.5 Eo, ——— " Chapel of New College, Oxford. Founded 1379.
——— " **Tower of London.** Famous old palace and prison of royalty.
——— " Hastings. Gate of Battle Abbey.
A29 CoG3, ——— Wales. Conway Castle. Built by Edward I, in 1284.
A29 CoG31, ——— " Conway Castle.
A3 RhR, ——— Germany. Rheinstein Castle.
——— " Quaint old houses—XV-XVI Centuries. Nuremberg.
" Old city walls and watch tower, Nuremberg.
A5 RoA2, ——— Italy. Rome. Castle of San Angelo and St. Peter's Church.
723.4 P11, ——— " Pisa. Famous leaning tower.
A5 RoG25, ——— " " Castle and Bridge of San Angelo.
——— " Venice. Doge's palace and prison.
732.5, ——— Spain. Toledo. Cloisters of San Juan de les Reyes.
——— " Granada. Tombs of Ferdinand and Isabella.
——— " " Walls and towers of the Alhambra.
——— Russia. Moscow. Kremlin walls and tower of sacred gate.
——— " " Tower of Ivan the Great and cathedral of Archangel Michael.
A89, ——— Denmark. Copenhagen. Hall of Knights where sovereigns and nobles met. Rosenborg Castle.
——— France. Notre Dame Cathedral, the most celebrated in France.
——— " Birthplace of Joan of Arc. Domremy-la-Pucelle.
——— Egypt. Cairo. Home of the Arabian Nights.
——— Ireland. Blarney Castle, near Cork.
——— " Kilkenny Castle.
——— Scotland. "Where the rude Trossach's dread defile opens on Katrine's Lake and Isle."
——— " Battleground of Bannockburn.
——— " Outlook from Stirling Castle—scene of heroic struggles.
——— " Stirling Castle. The seat of old-time kings.

HISTORY—Continued.

MEDIEVAL HISTORY—Continued.

----------	Scotland.	Tantallon Castle. Where Earl Douglas and Lord Marmion faced each other.
----------	"	Melrose Abbey.
----------	"	Norman Abbey.

MODERN HISTORY.

A1 Ay, -------	Scotland.	Ayrshire. "Auld Brig o' Doon."
----------	"	Edinburgh. Holyrood Palace, home of Mary, Queen of Scots.
----------	"	Abbotsford. Where Sir Walter Scott wrote Waverly novels.
----------	"	" Sir Walter Scott's Library.
----------	"	Dryburgh Abbey. Burial place of Sir Walter Scott.
----------	"	Ayr. The Birthplace of Robert Burns.
----------	"	" Robert Burns' Monument.
----------	"	Dumfries. House in which Robert Burns died.
----------	"	" Memorial to Robert Burns.
A1 MbA, -----	France.	Marseilles. The Harbor
A1 RiZ, ------	"	Riviera. Corniche road built by Napoleon I.
----------	"	Paris. The Arch of Triumph.
----------	"	" Bastille Monument. Where old State Prison was destroyed in 1789.
----------	"	" Sarcophagus containing body of Napoleon I.
----------	"	" Interior of Notre Dame Cathedral.
----------	"	Versailles. Gallery of Battles in memorial museum.
----------	"	Palace of Fontainebleau. Throne room of Napoleon I.
----------	"	Balinghem. "Field of the Cloth of Gold."
A19 Mo, ------	Monaco.	The Prince's castle.
A5 VeB5, -----	Italy.	Venice. Bridge of Sighs.
A5 VeB1, -----	"	" Grand Canal.
A5 RoA3, -----	"	Rome. Castle of San Angelo and St. Peter's.
A5 Vg, ------	"	Vesuvius, in eruption.
----------	"	Venice. The Grand Canal.
A6 BiV, ------	Spain.	Bilbao. Viscaya bridge.
A6 BuA, ------	"	Burgos. General view.
A6 Gi, -------	"	Gibraltar. Rock of Gibraltar.
A7 CaMI, ----	Russia.	Caucasus. Military road.
A7 MoB, ------	"	Moscow. Moscow Gate.
A7 MoK, -----	"	Kremlin.
----------	"	The Kremlin Wall.
----------	"	Moscow. The Great Bell of Moscow.
A8 ChF6, -----	Norway.	Christiana. Ancient church of Gol.
A95 MgB, -----	Greece.	Athens. Monument over Byron's heart.
A95 MgM, -----	"	" Tomb of Marco Bozzaris.
D295 SaA, -----	Porto Rico.	San Juan. On the seacoast.
D15 SjQ, ------	New Brunswick.	Quiatchonan Falls.
----------	Sweden.	Stockholm. Burial place of Gustavus Adolphus.
----------	Holland.	Delfthaven. Church where Pilgrim Fathers prayed before embarking for America.

UNITED STATES HISTORY.

----------	Mass., Boston.	Bunker Hill Monument.
----------	Mass., Boston.	Paul Revere House.
D44, ----------	Mass., Boston.	Paul Revere House. Family living room.
----------	" "	" " " Chamber.
----------	" "	" " " "
----------	" "	" " " Kitchen.
----------	" "	" " " Living room.
----------	" "	Faneuil Hall.
----------	" "	Old South Meeting House.
----------	" "	Old State House.
----------	" Concord.	Battleground and monument.
----------	" "	Minute Man.
----------	" "	Line of the Minute Men.
D44 Cb, ------	" Cambridge.	Washington's Elm.
----------	" "	Old Craigie House. Washington's headquarters, later home of Longfellow.
D59 ----------	Florida.	St. Augustine. Oldest house in St. Augustine.
D59 ----------	" "	Spanish gateway in city wall.
D49 TrW, -----	New Jersey.	Trenton. Washington's crossing—the Delaware.
D47 ----------	New York.	Albany. Old Van Rensselaer House.
D42 ----------	New Hampshire.	Manchester. Stark House,

HISTORY—Continued.

PENNSYLVANIA HISTORY.

D48 BeD, ------Bethlehem. Moravian burial ground.
D48 BeF2, ------ " Moravian Church, Sister's Convent.
D48 BeF22, ---- " Moravian Church.
D48 CaL, ------Cambria County. Statue of Gallitzin, Loretta.
D48 CaL1, ---- " Residence and first church of Prince Gallitzin.
D48 CaM, ------ " First settlement west of the Alleghenies.
D48 ChZ, ------Chester County. Evolution of School Buildings, 1818-1902.
D48 DrA, ------Driftwood. Old apple tree under which Bucktail regiment met.
D48 DrE, ------ " Bucktail monument, erected 1908.
D48 DrE1, ------ " Members of Bucktail Regiment at dedication of monument.
D48 DiZ, ------Dingman's Ferry. Old mill.
D48 EpA, ------Ephrata. General view of grounds of Ephrata society.
D48 EpA1, ------ " The stile, entrance to Cloister grounds.
D48 EpA11, ---- " Zion Hill, where Washington's fever stricken soldiers were brought.
D48 EpC1, ------ " Path to Brother House.
D48 EpC12, ----- " Near the baptismal place.
D48 EpC13, ---- " Bridge over the Cocalico.
D48 EpD, ------ " Grave yard.
D48 EpD1, ----- " Grave of Adam Koenigmaeher.
D48 EpD11, ---- " Grave of Obed, who organized a Sunday School about 1748.
D48 EpD13, ---- " Graves of the founders, Beissel and Miller.
D48 EpE, ------- " Monument to the Revolutionary Soldiers.
D48 EpS, ------- " Saal, or prayer house.
D48 EpZ4, ------ " Tickets used in Sunday School founded by Obed.
D48 Er, --------Erie. Block house of Fort Presque Isle.
D48 GeR21, ----Gettysburg. Gettysburg and Little Round Top.
D48 GeR26, ---- " Breastwork of 95th Pa. and 40th N. Y. on Little Round Top.
D48 GeW3, ------ " The Wheat Field.
D48 GeZ4, ------ " Battle Scarred Veteran. (Tree.)
D48 GeG242, ---- " Hospital on Culp's Hill.
D48 GeG24, ---- " From Culp's Hill, showing position held by 7th Indiana and Knapp's Battery.
D48 GeE21 ---- " Statue of John Burns.
D48 GeD41, ---- " Entrance to National Cemetery.
D48 GeD41, ---- " National Monument.
D48 GeG21, ---- " Gen. Howard's Position near Cemetery Hill.
D48 GeG4, ------ " Entrance to Devil's Den.
D48 GeH2, ---- " Gen. Hancock and Staff.
D48 GeM21, ---- " McPherson Barn.
D48 GeE721, --- " Monument of 28th Regiment on Culp's Hill.
D48 GeR22, ---- " Battlefield from Little Round Top.
D48 GeR23, ---- " On the Slope of Little Round Top.
D48 GeR24, ---- " Little Round Top form High Water Mark.
D48 GeR25, ---- " Battlefield from Little Round Top.
D48 GeW31, --- " Engagement in the Wheat Field.
D48 GeM4, ------ " Monterey Gap from Little Round Top.
D48 GeA, ------ " Artillery coming into action.
D48 GeE22, ---- " Hancock Monument.
D48 GeG241, --- " Summit of Culp's Hill.
D48 GeE72, ---- " Monument of the 29th Penna. Volunteers.
D48 GeG41, ---- " Devil's Den.
D48 GeH5, ------ " Highwater Mark.
D48 GeM2, ----- " Gen. Meade's Headquarters.
D48 GeO2, ------ " Old Tape Worm R. R. Cut.
D48 GeP3, ------ " Pennsylvania College.
D48 GeR1, ----- " Reynold's Grove.
---------- " Old McAllister Mill on Rock Creek. Built in 1790.
---------- " Map of Battlefield showing position of Armies.
---------- " Map showing battlefield and routes of Union Army.
---------- " Relief map of battlefield.
---------- " Field across which Pickett's Virginians charged.
---------- " Relief map of Cumberland Valley.
---------- " Confederate Sharp Shooters' position above Devil's Den.
---------- " Abraham Lincoln's Gettysburg address.
---------- " Painting of the Battle of Gettysburg.

—Continued.

PENNSYLVANIA HISTORY—Continued.

D18 HaA1, ----Harrisburg. Old Camel-back Bridge. Destroyed in 1902.
D18 HaG8, ---- " Painting of the Soldiers' encampment at Valley Forge.
D18 HuS1, ----Huntingdon. Buhrstones in old mill, in perfect running order.
D18 HuS11, --- " Old mill at Saltillo.
D18 HuS2, ---- " German Valley Church. Early Mission point.
D18 HuY1, ---- " Old cabin.
D18 HmZ, ----Hollidaysburg. Junction of State Canal and Portage R. R. 1833.
D18 NeG, ----Newport. Old Furnace at "Baileys."
D48 NdZ, ----Neweastle. Poster of Neweastle and Frenchtown R. R. 1833.
D18 NoD, ----Northumberland. Grave of Rev. Joseph Priestly.
D18 NoP, ---- " The Priestly House.
D18 NoY, ---- " Shikellimy's Face.
D48 PhI24, ----Philadelphia. Old State House, erected in 1735.
D18 PhY2, ---- " On the Brandywine.
D18 PhZ611, --- " Model of Baldwin Locomotive and train in 1834.
D18 PhZ6, ---- " Poster of Reliance Transportation Co., Philadelphia to Pittsburg.
D48 PhE7, ---- " Penn Treaty Monument.
D18 PhI22, ---- " Independence Hall. Interior.
D18 PhG21, ---- " Interior of Carpenters' Hall.
D18 PhS7, ---- " Old Railroad Depot.
D18 PhL5, ---- " Log Cabin, Mermaid Lane.
D18 PhG2, ---- " Carpenter's Hall.
D18 PhE2, ---- " Franklin's Statue, veiled.
D18 PhE21, --- " " unveiled.
D18 PhF5, ---- " Interior of Old Swede's Church.
D18 PhG8, ---- " Main Building of Girard College.
D18 PhZ2, ---- " Germantown Farmhouse.
D18 PhG1, ---- " Betsy Ross House.
D18 PhW6, ---- " Old Monastery, Wissahickon.
D18 PhC5, ---- " Wm. Penn House, Fairmount Park.
D18 PhI2, ---- " Independence Hall. Liberty Bell and staircase.
D18 PhI, ---- " Independence Hall. The Liberty Bell.
D18 PhZ, ---- " Castle of State Kitchen.
D18 PiA, ----Pittsburg. View of city in 1817.
D18 PiG5, ---- " Old Block House.
D18 PhW, ----Paoli. Home of Gen. Anthony Wayne
D48 PhoW, ---Phoenixville. Old Wheatley Lead Mine.
D18 RbF, ----Radnor. Old St. David's Church.
D18 SwW, ----Swarthmore. House of Benjamin West.
Valley Forge Washington's Headquarters.
D18 VaS, ---- " Old School House.
D18 VaG, ---- " Old Barracks.
D18 VaZ, ---- " Washington and his Generals.
D48 VaZ1, ---- " Washington among his soldiers.
D48 VaZ11, --- " Prayers.
D18 VaW1, --- " Doorway of Washington's Headquarters
D18 VaW12, --- " Hallway in Washington's Headquarters
D18 VaW13, --- " Secret passage from dining room.
---------- " Statue of Gen. Anthony Wayne.
--------- ---------- " Fort Washington.
---------- " Interior of Old Penn School House.
D18 WaE1, ---Warren. Cornplanter Indian Monument.
D18 WdA, ----Waterford. Site of Fort LeBouff from Washington Hill.
D18 WdG, ---- " Block House, Fort LeBouff.
D18 WeS, ----Waynesboro. Meeting House, Snow Hill Nunnery.
D18 WeS1, ---- " Steps to spring house, Snow Hill Nunnery.
D18 WeS11, --- " Spring house and kitchen, Snow Hill Nunnery.
D18 CoZ, ----Cocolamus Creek. Old Mill.
D18 O101, ----Oleona. View from Old Bull's castle.
D48 O1011, ---- " View towards Ole Bull's castle.
D48 O10, ---- " Ruins of Ole Bull's castle. 1850.

FORTS.

D48 PiG5, ----Old Block House, Pittsburg, Pa.
D48 WdA, ----View of Waterford, Pa. Site of Fort Le Bouff from Washington Hill.
D48 WdG, ----Block House. Stockade Fort Le Bouff, Waterford, Pa.

ARCHITECTURE.

JAPANESE AND CHINESE.

721.1 CT, ——— "Leaning Tower" of Soo-Chow, China.
722.1 Jh, ——— Higashi Hongwanjo, largest Buddhist temple in Japan, Kyoto.
Home of Count Okuma, Tokio, Japan.

EGYPTIAN.

722.2 Ab, ——— Abydos Columns, Egypt.
722.2 Edh, ——— Temple of Horus, Edfu, Egypt.
722.2 Gip, ——— Pyramids and Sphinx, Gizeh, Egypt.
722.2 Gip1, ——— Corner of Great Pyramid where tourists ascend, Gizeh, Egypt.
722.2 Gip11, ——— Pyramid of Chephren, Gizeh, Egypt.
722.2 KaT, ——— Colonnade in Temple, Karnak, Egypt.
722.2 KaZ, ——— Seulptured wall, Karnak, Egypt.
722.2 Pht, ——— Ruins of temple at Philae, Egypt.
722.2 Pht6, ——— Pharao's bed, Philae, Egypt.
722.2 T1, ——— Temple of Luxor, Thebes, Egypt.
722.2 Tr, ——— Ramesseum, Thebes, Egypt.
C2 CaY11, ——— Ghezireh Palaee Hotel, Cairo, Egypt.
CA CaB, ——— Seene in Cairo, Egypt.
C2 CaY1, ——— Grounds of the Ghezireh Palaee Hotel, near Cairo, Egypt.

ROMAN.

722.7 Re, ——— Areh of Constantine, Rome.
722.7 Rf1, ——— Columns of the temple of Saturn, the Forum, Rome.
722.7 Rf5, ——— Forum of Trajan, Rome.
722.7 Rt, ——— Triumphal Areh of Titus, Rome.
722.2 Sj, ——— Interior of temple of Jupiter, Baalbek, Syria.
A5 RoA, ——— Castle of San Angelo and St. Peter's Chureh, Rome.
The Colloseum, Rome, Italy.

GREEK.

722.8 Ad, ——— Seats in theatre of Dionysus, Athens.
722.8 Ae2, ——— Erectheum, unfinished eapitol, Athens.
722.8 Ae21, ——— " from the east, Athens.
722.8 Ae22, ——— " portieo of the earyatides, Athens.
722.8 Ae23, ——— " from the Parthenon, Athens.
722.8 Ag2, ——— Columns of the Gymnasium of Hadrian, Athens.
722.8 AL, ——— Lantern of Diogenes, monument of Lysikrates, Athens.
722.8 Ap2, ——— Fallen eolumns of the Parthenon, Athens.
722.8 Ap21, ——— Parthenon from the southeast, Athens.
722.8 Apr, ——— Among the columns, Propylaea, Athens.
722.8 At, ——— Best preserved temple in Greeee, Theseum, Atheus.
722.8 Aw, ——— Temple of the Winds, Athens.
722.8 Ct, ——— Temple of Old Corinth, Corinth.
A95 AtA1, ——— Panorama from the top of the Parthenon, Athens.
A95 AtH, ——— Floor Mosaies of Gymnasium of Hadrian, Athens.
A58 SyA, ——— Theatre of the 5th Century with modern Syraeuse, Cieily.
A95 AtA, ——— Aeropolis, Athens.

MEDIAEVAL.

723.4 P1, ——— Leaning tower and eathedral, Pisa, Italy.
723.4 P11, ——— Famous Leaning Tower, Pisa, Italy.

GOTHIC.

723.5 Eo, ——— Chapel of New College, founded 1379, Oxford, England.
723.5 St, ——— Cloisters of San Juan de les Reyes, Toledo, Spain.
726.6 Imi2, ——— Cathedral at Milan, Italy. Detail.
——— Norman Abbey, Jedburgh, Seotland.
——— Melrose Abbey, Seotland.
——— Interior of Notre Dame Cathedral, Paris.
——— Notre Dame Cathedral, Paris.

MODERN.

724.1 FPm, ——— Chureh of Madeleine, Paris, Franee.

TEMPLES.

726.1 Ia, ——— Temple at Agra, India.
726.1 Ia1, ——— " " "
726.1 Id, ——— Interior Namneth temple, Dilwarra, Mt. Abu, India.
726.1 Id1, ——— " " " " "
726.1 Ir, ——— Roek temple, India.

ARCHITECTURE—Continued.

CHURCHES.

726.5 Ri, ... Fili Church, Russia.
726.5 Z, ... Cemetery chapel.

CATHEDRALS.

726.6 An1, ... Interior of St. Patrick's cathedral, New York.
726.6 Im2, ... Cathedral at Milan, Italy. Detail.
726.6 Ir7, ... Ancient cloisters of St. Paul's, Rome, Italy.
726.6 Z, ... Cathedral of the Holy Trinity.
726.6 Z1, ... Interior of St. Johns.

PALACES.

728.3 RoC, ... Palace of Colonna, interior, Rome, Italy.

MISCELLANEOUS.

..... Exterior. Mormon temple, Salt Lake City, Utah.
D48 HaG, ... " Old State Capitol, Harrisburg, Pa.
D48 HaG112, ... " New Capitol, showing approach and building, Harrisburg.
D48 HaL1, ... " State Library and Museum, Harrisburg, Pa.
D53 WaG5, ... " Capitol at Washington, D. C. Inauguration of Pres. Roosevelt.
D48 HaG11, ... " Capitol at Harrisburg.
D53 WaL, ... " Grand Fountain, Library of Congress, Washington, D. C.
D53 WaL1, ... " Library of Congress, Washington, D. C.
D48 PiG12, ... " Entrance to Music Hall, Carnegie Institute, Pittsburg, Pa.
D48 PiG1, ... " Carnegie Institute, Pittsburg.
D48 PiK2, ... " Skeleton of a sky-scraper, Pittsburg.
D48 PiK21, ... " Sky-scraper completed, Pittsburg.
D48 PiG5, ... " Old Block House, Pittsburg, Pa.
D48 PiB6, ... " View of Sixth Avenue, Pittsburg, Pa.
D48 PhM2, ... " Masonic Temple, Philadelphia, Pa.
D48 PhG8, ... " Main Building of Girard College, Philadelphia.
D48 PhF8, ... " The Temple, Philadelphia.
D48 PhG3, ... " City Hall, Philadelphia.
D48 PhH3, ... " Boy's High School, Philadelphia.
D48 PhW6, ... " Old Monastery, Wissahickon, Philadelphia.
D48 S72, ... " Philadelphia and Reading Terminal Station, Philadelphia.
D48 PhS7, ... " Old Railroad Depot, Philadelphia.
D48 PhS71, ... " Broad Street Station, Philadelphia.
D48 PhM1, ... " United States Mint, Philadelphia.
D48 PhG, ... " Bellevue-Stratford, Philadelphia.
D17 NeG6, ... " Flatiron Building, New York.
D17 NeS1, ... " Stock Exchange, New York City.
D48 WeS, ... " Meeting-house, Snow Hill Nunnery, Waynesboro, Pa.
D48 ErG2, ... " Block House of Ft. Presque Isle, Erie, Pa.
D48 HuY1, ... " Old Cabin in Huntingdon County, Pa.
D48 EbG3, ... " Brother House, Ephrata, Pa.
D48 GeP3 ..... " Pennsylvania College, Gettysburg, Pa.
D48 ChZ, ... " Evolution of school buildings, Chester County, Pa.
D48 CgH, ... " High School, Chester, Pa.
D88 MfP, ... " Cliff Palace in the Mesa Verde, Colorado.
A29 CoG3, ... " Conway Castle, Wales.
A3 RhR, ... " Rhelnstein Castle, Germany.
A19 Mo, ... " Monaco, showing the Prince's castle.
A6 BuA, ... " General view of Burgos, Spain.
A5 RoA, ... " Castle of San Angelo and St. Peter's Church, Rome.
A2 WbG, ... " Warwick Castle, England.
B2 Z25, ... " Shinto Temple, Japan.
A8 ChF6, ... " Ancient Church of Gol, Norway.
A29 CoZ11, ... " Houses at Conway, Wales.
B4 AgT, ... " Tomb of a Mogul, Agra, India.
D48 HaG213, ... Interior. Ceiling of the dome in Capitol, Harrisburg.
D48 HaG31, ... " Governor's reception room, Capitol, Harrisburg
D48 HaG3, ... " Governor's private office, Capitol, Harrisburg
D48 HaG25, ... " Ladies' reception room, Capitol, Harrisburg.

ARCHITECTURE—Continued.

MISCELLANEOUS—Continued.

D48 HaG52, ...Interior. Stained glass in dome of Supreme Court Room, Capitol, Harrisburg.
D48 HaG61, ... " House of Representatives, Capitol, Harrisburg.
D48 PiL2, ... " Alexander Hall, Carnegie Library, Pittsburg.
D48 PiG121, ... " Foyer in Musie Hall, Carnegie Institute, Pittsburg.
D48 PiG11, ... " Hall of Seulpture, Carnegie Institute, Pittsburg.
D48 PhM211, ... " Egyptian Hall, Masonie Temple, Philadelphia.
D48 PhM21, ... " Oriental Hall, Masonie Temple, Philadelphia.
D48 PhF5, ... " Interior of Old Swede's Chureh, Philadelphia, Pa.
D48 PhI2, ... " Independenee Hall, Liberty Bell and staircase, Philadelphia.
D48 PhI22 ..... " " " Room where first National Congress met.
D48 PhS711, ... " Panel in waiting room of Broad Street Station, Philadelphia.
D48 EpS, ... " Saal, or prayer house, Ephrata, Pa.
D48 EpZ3, ... " Plastering lath, Ephrata, Pa.
D48 EpG32, ... " Frame work in Brother House, Ephrata, Pa.
B4 MoD, ... " Interior of Dilwara Temple, Mount Abu. India.
B4 MoD1, ... " Central Shrine of Temple, Mount Abu, India.
D48 HaG2, ...Doors. Famous bronze doors of the Capitol, Harrisburg, Pa.
D48 HaG5, ... " Door of the Supreme Court Room, Capitol, Harrisburg, Pa.
D53 WaG65, ... " Senate doors in Capitol, Washington, D. C.
D53 WaG66, ... " " " " "
D53 WaG67, ... " " " " "
D53 WaG68, ... " " " " "
D53 WaG75, ... " Rogers bronze doors, Capitol, Washington, D. C.

SCULPTURE.

ANCIENT.

732 Bd, ...Statue of Da Uda. Thought to be oldest in the world. Bismya, Babylonia.
732 C, ...King Our-nind and family, Chaldea.
732 Eo, ...Obelisk, Egypt.
732 Er, ...Rameses II at Abu Simbel, Egypt.
732 Es1, ...Sphinx at gate, Egypt.
C2 GiZ, ...The Sphinx, Gizeh, Egypt.

AZTEC, PERUVIAN, MAYA, ETC.

732.9 He, ...Copan stele 6, showing heiroglyphies, Honduras.
732.9 He1, ... " 13, showing seulpture, Honduras.
732.9 Mm, ...Some of the best examples of Maya sculpture, Mexieo.

GREEK AND ROMAN.

733 Ah, ...Homer, Museum at Naples. (Head.)
733 Ba, ...Apollo Belvedere, Vatiean, Rome.
733 Bh4, ...Hereules, Farnese (Glyeon), Museum at Naples.
733 Bh5, ...Hermes. (Praxitiles). Museum, Olympia.
733 C1, ...Laoeoon, Vatiean, Rome.
733 Em, ...Mareus Aurelius. Equestrian statue, Capitol, Rome.
.....Most beautiful statue in the Louvre, Venus of Melos, Paris

ITALIAN.

734 C16d, ...Diana, by Canova.
734 C16h, ...Hebe, by Canova.
734 C16p, ...Paris, by Canova.
734 M58m, ...Moses, Miehael Angelo.
734 Zm, ...Tomb of Miehael Angelo, Florenee, Italy.

AMERICAN.

735A S13a, ...Bronze figure. "Grief," Washington, D. C. Saint Gaudens
735A S13L, ... " of Lineoln, Chieago, Ill., Saint Gaudens.
735F F18p, ...Peter the Great, St. Petersburg, Falconet.

SCULPTURE—Continued.

MISCELLANEOUS.

A4 PaL1, ... Figure of a woman, Luxembourne Museum.
A4 PaL11, ... Youth and Love.
---------- ---------- Mercy.
A7 SaH1, ... Mercury.
D53 WaG71, ... Marble Room, Capitol, Washington, D. C.
---------- ---------- Gallery of Statues, Vatican, Rome, Italy.

MONUMENTS.

D18 PiE9, ... Washington Monument, Pittsburg, Pa.
D18 CaL, ... Statue of Gallitzin, Loretta, Pa.
D18 DrE, ... Bucktail Monument, Driftwood, Pa.
D18 EpE, ... Monument to Revolutionary Soldiers, Ephrata, Pa.
D18 PhE7, ... Penn Treaty Monument, Wissahickon Creek, Philadelphia, Pa.
D18 PhE2, ... Franklin's statue, veiled, Philadelphia, Pa.
D18 PhE21, ... " unveiled, Philadelphia, Pa.
D18 PhC65, ... Smith Memorial, Fairmount Park, Philadelphia, Pa.
D18 GeR25, ... Gettysburg Battlefield from Little Round Top, Gettysburg, Pa.
D18 GeR21, ... Little Round Top from High Water Mark, Gettysburg, Pa.
D18 GeR23, ... On the slope of Little Round Top, Gettysburg, Pa.
D18 GeD11, ... National Monument, Gettysburg, Pa.
D18 GeH5, ... Highwater Mark, Gettysburg, Pa.
D18 GeG211, ... Summit of Culp's Hill, Gettysburg, Pa.
D18 GeG21, ... From Culp's Hill, Gettysburg, Pa.
D18 GeE721, ... Monument of the 28th Regiment, Gettysburg, Pa.
D18 GeE72, ... Monument of the 29th Pa. Volunteers, Gettysburg, Pa.
D18 GeE22, ... Hancock Monument, Gettysburg, Pa.
D18 GeE21, ... Statue of John Burns, Gettysburg, Pa.
D18 WaE1, ... Cornplanter Monument, Warren County, Pa.
D53 WaE8, ... Sherman Park and Washington Monument, Washington, D. C.
D53 WaE38, ... Garfield Monument, Washington, D. C.
D2 ChS, ... The Sacred shrine on Cholula, Mexico.
A95 MgB, ... Grave of Byron's Heart, Greece.
A95 MgM, ... Tomb of Marco Bozzaris, Greece.
D17 NeC1, ... The Obelisk, Central Park, New York.
C2 GiP, ... The Second Pyramid, Gizeh, Egypt.
---------- ---------- Gen. Anthony Wayne Statue, Valley Forge, Pa.
---------- ---------- Noble statue of Frederick the Great, east end Unter den Linden, opposite Academy Buildings, Berlin, Germany.

PAINTING.

AMERICAN.

751 I6e, ... The Clouded Sun, by Geo. Innes. Carnegie Art Gallery, Pittsburg.
751 L57w, ... Washington Crossing the Delaware, by Leutze. Met Museum.
751 R15E, ... East River Idyl, by Ranger. Carnegie Art Gallery.
751 S37a, ... Across the River, by Schofield. Carnegie Art Gallery.
751 S59e, ... Evening in a Studio, by Simon. Carnegie Art Gallery.
751 T78m, ... May, by Tryon. Carnegie Art Gallery.
751 V51K, ... Keeper of the Threshold, by Vedder. Carnegie Art Gallery.
751 W58p, ... Portrait of Pablo Sarasate, by Whistler. Carnegie Art Gallery.
D18 HaG312, ... Tyndale printing the Bible. Capitol at Harrisburg. Oakley.
D18 HaG3122, .. Burning the books at Oxford. Capitol at Harrisburg. Oakley.
D18 HaG3123, .. Execution of Tyndale. Capitol at Harrisburg. Oakley.
D18 HaG3124, .. Answer to Tyndale's prayer. Capitol at Harrisburg. Oakley.
D18 HaG3125, .. Anne Askew refusing to recant. Capitol at Harrisburg. Oakley.
D18 HaG3126, .. Development of Puritan Idea. Capitol at Harrisburg. Oakley.
D18 HaG3127, .. George Fox on Mount of Vision. Capitol at Harrisburg. Oakley.
D18 HaG3128, .. Penn in Study at Oxford. Capitol at Harrisburg. Oakley.
D18 HaG3129, .. Penn meets the Quaker thought. Capitol at Harrisburg Oakley.

PAINTING—Continued.

AMERICAN.

D48 HaG313, --Penn turned from home. Capitol at Harrisburg. Oakley.
D48 HaG3131, -Penn's arrest. Capitol at Harrisburg. Oakley.
D48 HaG3132, -Penn's examination. Capitol at Harrisburg. Oakley.
D48 HaG3133, -Penn writing in prison. Capitol at Harrisburg. Oakley.
D48 HaG3134, -Penn seeks to free others. Capitol at Harrisburg. Oakley.
D48 HaG3135, -Penn's vision. Capitol at Harrisburg. Oakley.
D48 HaG3137, -Penn's first sight of land. Capitol at Harrisburg. Oakley.
D48 HaG22, ---Religion. Capitol at Harrisburg. Abbey.
D48 HaG221, --Science. Capitol at Harrisburg. Abbey.
D48 HaG2211, -Law. Capitol at Harrisburg. Abbey.
D48 HaG2212, -Art. Capitol at Harrisburg. Abbey.
D48 HaG2221, -Spirit of Religious Liberty. Capitol at Harrisburg. Abbey.
D48 HaG2222, -Spirit of Vulcan. Capitol at Harrisburg. Abbey.
D48 HaG2223, --Science Revealing the Treasures of Earth. Capitol at Harrisburg. Abbey.
D48 HaG2224, -Spirit of Light. Capitol at Harrisburg. Abbey.
D48 PiG13, ----Penance of Eleanor, Carnegie Art Gallery, Pittsburg. Abbey.
D53 WaL91, ---Oral Tradition. Library of Congress, Washington. Alexander.
D53 WaL911, -- The Cairn. Library of Congress, Washington. Alexander.
D53 WaL912, --Picture Writing. Library of Congress, Washington. Alexander.
D53 WaL913, --Egyptian hieroglyphies. Library of Congress, Washington. Alexander.
D53 WaL914, --MSS. book. Library of Congress, Washington. Alexander.
D53 WaL915, --Printing press. Library of Congress, Washington. Alexander.
D53 WaL931, --Lyric poetry. Library of Congress, Washington. Walker.
D53 WaL932, --Ganymede. Library of Congress, Washington. Walker.
D53 WaL9311, -Religion. Library of Congress, Washington. Pearce.
D53 WaL9312, -Labor. Library of Congress, Washington. Pearce.
D53 WaL92, ---Law. Library of Congress, Washington. Dielman.
D53 WaL935, --History, Mythology and Tradition. Library of Congress, Washington, Dielman.
D48 PhI3, -----Penn's Treaty with the Indians, by Benjamin West.
751 B38n, -----New England Woman. Philadelphia Academy of Fine Arts. C. Beaux.
751 B76r, -----Roumanian Lady. Philadelphia Aeademy of Fine Arts. F. Bridgman.
751 B83m, -----Mother and Child. Philadelphia Academy of Fine Arts. G. D. Brush.
751 E5c, ------Cello player. Philadelphia Aeademy of Fine Arts. T. Eakins.
751 P58o, -----Borders of the Marsh. Philadelphia Academy of Fine Arts. W. L. Picknell.
751 R63p, -----Port Ben, D. & H. Canal. Philadelphia Academy of Fine Arts. T. Robinson.
751 S37w, -----Winter. Philadelphia Academy of Fine Arts. W. E. Schofield.
751 S85b, -----Elizabeth Beale Bordley. Philadelphia Academy of Fine Arts. Gilbert Stuart.
751 S85w, -----Washington. Philadelphia Academy of Fine Arts. Gilbert Stuart.
751 V28a, -----Ariadne in Naxos. Philadelphia Academy of Fine Arts. J. Vanderlyn.
751 W43m, ----Midday Rest in New England. Philadelphia Academy of Fine Arts. J. A. Weir.
759 M49s, -----Sailor and His Sweetheart, by Melchers. Carnegie Art Gallery.
759 M49sk, ----The Skaters by Melchers. Philadelphia Academy of Fine Arts.

ENGLISH.

752 E19r, -----Returning from Church, by East. Carnegie Art Gallery.
752 H18g, -----Rt. Hon. Wm. E. Gladstone. Academy of Fine Arts. Hamilton.
752 H18v, -----Hon. Richard Vaux. Academy of Fine Arts. Hamilton.
752 L56m, ----Murder of Rutland by Clifford. Academy of Fine Arts. C. R. Leslie.
752 W69f, -----Falls of Tivoli. Academy of Fine Arts. R. Wilson.

GERMAN.

753 G82m, ----Mrs. Mauriee Grieffenhagen, by Maurice Grieffenhagen. Carnegie Art Gallery.

PAINTING—Continued.

FRENCH.

754 A48m, ____Mirror in the Vase, by Aman-Jean. Carnegie Art Gallery.
754 B29p, ____Peasant, by Bastien-Lepage. Carnegie Art Gallery.
754 B64h, ____Horse Fair, by Rosa Bonheur. Metropolitan Museum.
754 D12d, ____Disciples at Emmaus, by Dagnan-Bouceret.
754 R13b, ____Boulevard des Italiens, Paris, by Raffaelli. Carnegie Art Gallery.

ITALIAN.

755 R2t, _____The Transfiguration, by Raphael. The Vatican, Rome.
755 G72v, ____Virgin and Child by Benozzo Gozzoli. Philadelphia Academy of Fine Arts.

DUTCH.

759 H36v, ____The Violinist by B. Vander Helst. Philadelphia Academy of Fine Arts.

MISCELLANEOUS.

A8 Z7, _____Flat boat on the Coast of Norway.
_____Portrait of a Russian Woman.
EK Z1, _____Meditation.

NATURE AS AN ARTIST.

D48 PoP, _____Paradise Falls, Pocono, Pa.
D48 PhY2, ____On the Brandywine, near Philadelphia.
D48 JuA21, ____Mists of the early morning, Juniata River, Pa.
D48 HuT, ____Trough Creek, near Calvin, Huntingdon, Pa.
D48 Gd, _____Through the Trees, Lake Ganoga, Pa.
D48 EpC12, ___On the Cocalico, Ephrata, Pa.
D48 EaY, _____Forksville Water falls, Eaglesmere, Pa.
D48 DeI, _____Indian Ladder Bluff, Delaware Water Gap.
D12 A11, _____Winter scene, Lake Louise, Alberta, Canada.
D48 CnZ, _____Old Mill on Cocolamus Creek.
D12 A12, _____Looking down Spray Valley, Alberta, Canada.
D47 NiG, _____Grottoes and Temples with Crystal Spires, Niagara Falls, N. Y.
D47 NiR, _____Niagara River, Rapids by Moonlight, Niagara, N. Y.
D47 NiA, _____Niagara Falls in Winter, Niagara, N. Y.
D48 KaI, _____Winter's Phantoms, Kane, Pa.
B2 Z22, _____Sunrise on the Sea of Japan.
D94 SfG, _____Cliff House and Seal Rocks by Moonlight, San Francisco, Cal.
D48 PiZ2, _____Snow Scene, Pittsburg, Pa.
D47 Ma3, _____Sunset from Mackinac Island, Mich.
E5 MoA, _____The Surf, Mollendo, Peru.
BT Oa1, _____Oak Tree.
BT ElA2, ____An American Elm.
BT BeA, ____American Beech.
BF Mj1, _____Milkweed Blossoms.
BT Wi, _____Willow Trees.
BF WaR22, ___Wake-Robin. Growing.
BF Gp, _____Golden-rod.
BF Rh1, _____Rhododendron. Growing.
BF As, _____Wild Aster.
D83 Be2, _____Bear Butte Creek, South Dakota.
D91 YoM, _____Mirror Lake, Yosemite Valley, Cal.
BT Hi, _____Hickory Tree
D48 CaZ1, ____"The breath of the morning," Cambria County, Pa.
D48 PeS, _____Shadowy Curve, Peace Mountain.
D48 Z8, _____Sailor's Ford
_____Sunset in the tropics, Colon, Isthmus of Panama.

NATURE AS A SCULPTOR.

D91 Gr, _____Grand Canon, seen from Grand View, Arizona.
D871 Mb, _____Cleopatra Terrace and Pools, Mammoth Hot Springs, Yellowstone National Park.
PG DB41, ____Among the ice peaks of Illecillewaet glacier, B. C.
D48 HuP, _____Pulpit rocks, Huntingdon, Pa.
D48 EaT, _____Picklish Rock, Eaglesmere, Pa.
D48 Dy2, _____Hanging Rock, near Danville, Pa.

PAINTING—Continued.

NATURE AS A SCULPTURE.

D95 Z1, ——— Eroded tertiary Lake beds, Owyhe River, Oregon.
D95 Z11, ——— " " " "
D95 Z13, ——— Rain and Wind Seulpture, Oregon.
D95 Z2, ——— Great Oregon Caves, Oregon.
D75 Z, ——— Profile roek, Lake Mendota, Wiseonsin.
D47 NiC7, ——— Frosted Trees, Prospeet Park, Niagara Falls, N. Y.

NATURE AS AN ARCHITECT.

F8 GrZ, ——— An Ieeberg, Greenland.
A15 GiL, ——— The Loom, Giant's Causeway, Ireland.
A15 Gi, ——— Giant's Causeway, Ireland.
D14 Z, ——— Roek Strata Forming Natural Steps, Montmoreney River, Canada.
F44 Z1, ——— Carlatta arch, Jenolan eaves, New South Wales.
B69 BdA, ——— Grotto of the Pigeons, Beyrout, Syria.
D47 Rn1, ——— Twin sister's roeks, Roek City, N. Y.

SUBJECTS SUITABLE FOR ART.

ZM Sh11, ——— "Driving home the sheep," Newton Hamilton, Pa.
D48 HuZ3, ——— "The stroke that eounts," Huntingdon, Pa.
B2 FuA, ——— Fuji-San, Japan.
A1 Z, ——— A Highland home, Seotland.
D48 PhI2, ——— Interior of Independenee Hall, Philadelphia, Pa.
D48 HuY1, ——— Old eabin in Huntingdon County, Pa.
D48 HuS11, ——— Old mill, near Huntingdon, Pa.
D48 WeS11, ——— Spring house and kitehen of Snow Hill Nunnery, Wayesboro, Pa.
D48 WeS1, ——— Stone steps leading to spring, Snow Hill Nunnery, Waynesboro, Pa.
D48 SwW. ——— House of Benjamin West, Swarthmore, Pa.
D48 SpT, ——— Spruee Creek Tunnels.
D48 HuZ33, ——— Farm seene, Huntingdon, Pa.
D48 HuZ, ——— "Return of the floek, Huntingdon, Pa.
D48 EpC13, ——— Bridge over the Coealieo, Ephrata, Pa.
D48 EpZ241, ——— Cloister relies, Ephrata, Pa.
D48 EpZ, ——— Seribe's eorner, Ephrata, Pa.
D48 EpS4, ——— The knoeker, Sister house, Ephrata, Pa.
D48 EpS1, ——— Entranee to Saal, Ephrata, Pa.
A8 Z7, ——— Flat Boat on the eoast of Norway.
D48 EpA1, ——— The stile; entranee to Cloister grounds, Ephrata, Pa.

FLOWER STUDIES.

BF Nb. ——— Nasturtium.
BF LjV, ——— Lily of the valley.
BF Le2, ——— Laurel.
BF Gp1, ——— Goldenrod.
BF Ch, ——— Chrysanthemums.
BF CdW, ——— Wild Carrot.
BF BlB, ——— Blue bells.
BF Bf, ——— Bee balm.
BF LaS, ——— Lady's slipper.
BF Th, ——— Thimbleberry.
BC FeM. ——— Maidenhair Fern.
BT Do61, ——— Dogwood. Berries.
BT Do6, ——— " Blossoms.
BF InP. ——— Indian pipe. Growing.
BF Mj, ——— Milk-weed.
BF ClW1, ——— White Clover.
BF Sm, ——— Solomon's Seal.
BF Mb, ——— Marsh Marigold.
BF TiG, ——— Globe Thistle.
BF Mp, ——— Morning glory.
BF ClR, ——— Red Clover.
BF LjT, ——— Tiger Lily.
BF Jo, ——— Joe-Pye weed.

FOR CONVENTIONAL DESIGNS.

BF WdP, ——— Pink Water Lily.
BF WaR2, ——— Wake-Robin. Detail.
BT Mb1. ——— Maple blossoms.
BT MbS, ——— Silver Maple. Leaves and fruit.
BT OaC, ——— Chestnut Oak. Braneh with aeorns.

SUBJECTS SUITABLE FOR ART Continued.

FOR CONVENTIONAL DESIGNS Continued.

BT PiL, ------ Long-leaved Pine.
BT PiW2, ---- White Pine. Branch with cones.
BF Wel, ------ Water Lily. Large leaves.
ZI BSwT, ---- Butterfly, Tiger Swallowtail.
ZI BSwTx, --- " " (Caterpillar).
ZI BMo, ----- " Monarch.
ZI BMox, ---- " " (Caterpillar).
ZI BSu, ------ " Common Sulphur.
ZI BSux, ---- " " (Caterpillar).
ZI BSwB, ---- " Black Swallowtail.
ZI BSwBx, -- " " (Caterpillar).
ZI BSwG, ---- " Green Clouded, Swallowtail.
ZI BSwGx, -- " " " (Caterpillar).
ZI MSpG, ---- Moth, Green Grape-vine Sphinx.
ZI MSpE, ---- " Elm Sphinx.
ZI MpRI, ---- " Callosamia promethea. Male.
ZI Mpr, ------ " " " Female.
ZI MPo, ------ " Polyphemus.
ZI MIoH, ---- " Io Emperor, female.
ZI MIoI, ----- " Io Emperor, male.
ZI MIm, ----- " Imperial.
ZI MHix, ---- " Hickory Horn-devil. (Caterpillar).
ZI MHi, ------ " " "
ZI MGe, ----- " Geometer.
ZI MFpx, ---- " Fork-tail. (Caterpillar).
ZI MFoSx, --- " Spotted Forester. (Caterpillar).
ZI MCe, ----- " Cecropia.
ZI MCex, ---- " " (Caterpillar).
ZI MUnY, ---- " Yellow Underwing.
ZI MUnR, --- " Red Underwing.
ZI MSpTx, -- " Tomato. (Caterpillar).
ZI MSpT, ---- " " Sphinx.
ZI MSpSx, --- " Smerinthid (Caterpillar).
ZI MSpS, ---- " " Sphinx.
ZI MSpR, ---- " Red Grape-vine Sphinx.
ZI MSpGx, --- " Green Grape-vine Sphinx. (Caterpillar).
ZM JBl, ------ Jaguar.
ZM Gi, -------- Giraffe.
ZM Zel, ------- Zebra.
ZM TiM, ------ Malay Tiger.
ZR SniS, ----- Milk Snake, Southern.
ZR SG, ------- Garter Snake.
ZR SRi, ------ Ribbon Snake.
ZA FL, ------- Leopard Frog.
ZR TuH, ---- Hawks-bill Turtle.
ZR TeD, ----- Diamond-backed Terrapin.
ZB PdI, ------ Pea-fowl.
ZB FdH, ------ Pea-fowl.
ZB JaB, ------ Blue Jay.

LITERATURE.

ENGLAND.

A2 La, ------- England. Langdale Valley.
A2 WbG, ----- " Warwick Castle from bridge.
---------- " London, Tower of London.
---------- " " London Bridge.
---------- " Shottery, Ann Hathaway's Cottage.

IRELAND.

---------- Cork. Blarney Castle, Stronghold of the MacCarthys and shrine of Irish wit.
---------- Kilkenny Castle. Typical Irish castle.
---------- Killarney, Old weir bridge.

SCOTLAND.

AI Ay, ------- Ayrshire, "Auld brig o' Doon" made famous by Burns.
AI Z, -------- A Highland home, "We'el take a cup o' kindness yet."
---------- Abbotsford. Where Sir Walter Scott wrote Waverly Novels.
---------- " Sir Walter Scott's library.
---------- " Burial place of Sir Walter Scott, Dryburgh Abbey.

LITERATURE—Continued.

SCOTLAND—Continued.

---------- Ayr, Birthplace of Robert Burns.
---------- " Robert Burns' monument on village green.
---------- Bannockburn, Battle ground, "Scots wha hae wi' Wallace bled."
---------- Dumfries, Modest home where Robert Burns died.
---------- " Scotia's memorial to her ploughman poet, Burns.
---------- Edinburgh, Holyrood Palace home of Mary Queen of Scots.
---------- Jedburgh. Norman Abbey. For 8 centuries the pride of the Borderland.
---------- Katrine. "Where the rude Trossach's dread defile opens on Katrine's lake and isle."
---------- Melrose Abbey, often mentioned by Scott.
---------- Stirling Castle, Closing scenes of Lady of the Lake, laid here.
---------- Stirling Castle, looking toward Wallace Monument.
---------- Tantallon Castle, where Douglass and Marmion met.

SWITZERLAND.

A94 GrZ, ------ Blowing the Alpine horn, Grindelwald.

GREECE.

A95 MgB, ----- Grave of Byron's heart.
---------- Athens old and new.
---------- Where old Sparta stood. Mountains which Menelaus and Helen knew.

SPAIN.

---------- Granada. Walls and towers of the Alhambra.

GERMANY.

---------- Berlin. Unter den Linden.
---------- Nuremberg, Old city walls and watch tower.
A3 RhB, ------ Rhine River.
---------- " Lorelei rocks, where sirens lured boatmen to destruction.

NORWAY.

---------- Christiana. Old Viking ship, a reminder of Norse days.

SWEDEN.

---------- Stockholm. Where Gustavus Adolphus rests.

ITALY.

---------- Rome, Colosseum.
---------- " Appian way.
---------- Venice. Grand Canal.

FRANCE.

---------- Barlinghem. "Field of the cloth of gold" where kings met.
---------- Domremy la Pucelle, Birthplace of Joan of Arc.
---------- Paris. Notre Dame, most celebrated cathedral in France.
---------- " Tomb of Napoleon.
---------- " Bastille monument on site of old state prison.

EGYPT.

---------- Cairo, From Saladin's citadel.

JAPAN.

---------- Osaka. Sacred lotus flowers in pond.

UNITED STATES.

D44 AmW, ---- Mass. Whittier's home at Amesbury.
D44 CbW, ---- " Washington elm at Cambridge.
---------- " Grave of Longfellow, Mt. Auburn, Cambridge
---------- " Whittier's birthplace.
---------- " Longfellow's birthplace.
---------- " Hawthorne's birthplace.

LITERATURE—Continued.

UNITED STATES—Continued.

Mass. Hawthorne's home.
" Wayside Inn.
" Minute man.
" Elmwood, Lowell's birthplace, Cambridge.
" Bunker Hill monument.
" Cambridge. Old Craigie house, Washington's headquarters and later home of Longfellow.

D18 HaA1, ---- Penna. Old camel back bridge at Harrisburg, which Dickens mentions.
D18 HuZ3, ---- " Huntingdon. The stroke that counts (village blacksmith).
D18 O10, ------ " Oleona. Ruins of Ole Bull's castle, 1850.
D18 O101, ----- " " View across the valley from Ole Bull's castle.
D76, ---------- Minn. "Laughing waters," Minnehaha Falls, Minneapolis, made famous by Longfellow.
D88 M5P, ------ Colorado. Cliff palace, Mesa Verde.
D59 Su, ------- Florida. "Way down on the Suwanee River," Uncle Tom's cabin.

CANADA.

D15 SjQ, ------ Canada. Qulatchouan Falls, the "Laughing water" of Longfellow's Evangeline.

EVOLUTION OF WRITING.

D18 EpS2, ----- Pulpit in Saal, Ephrata, Pa.
D89 Z1, ------- Pictographs, White Rock Canyon, New Mexico.
Medinet Habu, Hieroglyphics.
C2 RoZ, ------ Rosetta Stone, Egypt.
722.2 KaZ, ----- Sculptured Wall, Egypt.
732 Eo, ------- Obelisk, Egypt.
732.9 Hc, ------ Copan stele No. 6, showing hieroglyphic inscription.
C2 Z4, ------- Ancient and Egyptian forms of writing, Egypt.
D53 WaL911, -- Painting, "The Cairn," Library of Congress, Washington, D. C.
D53 WaL91, --- " "Oral Tradition," Library of Congress, Washington, D. C.
D53 WaL912, -- " "Picture writing," Library of Congress, Washington, D. C.
D53 WaL913, -- " "Egyptian hieroglyphics," Library of Congress, Washington, D. C.
D53 WaL911, -- " "MSS. Book," Library of Congress, Washington, D. C.
D53 WaL915, -- " "Printing Press," Library of Congress, Washington, D. C.
D18 HaG312, -- " "Tyndale Printing the Bible," Capitol, Harrisburg.
---- Cylinder of Cyrus. Inscribed with an account of his capture of the city of Babylon, B. C. 539.
---- Unbaked brick, made of Nile mud and chopped straw, stamped with the prenomen of Rameses II.
---- Account of the building of the walls and temples of Babylon, by Nebuchadnezzar II, king of Babylon, B. C. 604.
---- Extract from the annals of Sennacherib, king of Assyria, about B. C. 705-681.
---- Judgement scene from the papyrus of Anl. About B. C. 1400. The "Book of the Law." Fifteenth century.
---- Phoenician and Hebrew alphabets, as derived from the Egyptian hieratic characters.
---- Egyptian Brickmakers.
---- Hebrew Pentateuch. Ninth century.
---- Greek and Latin alphabets.
---- Six-sided cylinder, inscribed with the annals of Sennacherib, king of Assyria. About B. C. 705-681.

MUSICAL INSTRUMENTS.

INSTRUMENTS OF THE INCAS.

E5 Z12, ------- Rattles.
E5 Z15, ------- Clay trumpet—Water Vessel with Cymbal and Drum
E5 Z1, -------- Copper bells and gongs or bells.
E5 Z2, -------- Wind instrument.
E5 Z11, ------- Flutes—made of cane, bone, and gourd.
E5 Z17, ------- Musical Water Jars, playing pan-pipes and drum.
E5 Z19, ------- Flutes and Resonator Whistles.
E5 Z16, ------- A Resonator Whistle.
E5 Z13, ------- Syrinx or Pan-pipe.
E5 Z18, ------- Whistling Jar. Figure with drum.
E5 Z14, ------- Syrinx of stone.

INSTRUMENTS FROM THE CONGO.

C7 Z11, ------- Musical bow and Sanza.
C7 Z16, ------- Sanza and Zither.
C7 Z12, ------- Harp-guitar.
C7 Z13, ------- Marimba.
C7 Z15, ------- Trumpet.
C7 Z14, ------- Tomtom, drum, and rattle.
C7 Z1, -------- Drum.
---------- A band of alang-alang players—an ancient musical instrument of the natives of Java.

KINDERGARTEN.

EK ZC23, ----- Gathering Daisies.
EK ZC231, ---- Dancing round the daisy pole.
EK Z28, ------- The snow man.
EK ZC21, ----- Barn Rats.
EK ZC2, ------ Out to see the races. (Goat.)
EK ZA1, ------ Dog. "You look like a soldier, Major."
EK ZA5, ------ One of Pony's tricks.
EK ZA2, ------ "They're all my ducklings." (Ducks.)
EK ZA21, ----- Baby's white fledgelings. (Chickens.)
EK ZC24, ----- "No, 'oo tan't det down, pussy." (Cat.)
EK ZC22, ----- Cherries Ripe, Cherries Red.
EK ZA7, ------ "Isn't our stock looking fine?" (Rabbit.)
EK ZA6, ------ "And a little child shall lead them." (Oxen.)
EK ZA3, ------ "Watching the dog." Cat and two kittens.
EK ZA11, ----- Group of puppies.
EK ZA, -------- Calf.
EK ZA511, ---- "We's feedin' our beautiful baby burro." (Donkey.)
D91 Mo42, ----- Moki dolls, Arizona.
EK ZA51, ----- Horses.
ZM BeS11, ---- Bear, Syrian, cubs.
ZM BiA, ------ Bison and calves.
ZM FoR2, ----- Fox, Red. Old fox and young.
ZM LyB, ------ Lynx, Bay. A pet.
ZM Pi, -------- Pigs. "A Happy Family."
ZM Sh1, ------- Sheep. "The favorites of the flock."
ZM OpV2, ----- O'possum, Virginia, and young.
ZM LiB, ------ Lion, Barbary, cubs.
ZM SqG, ------ Squirrel, Gray.
ZM WnG, ----- Wolf, Grey, group of young.
ZB Ce, -------- Catbird, eggs and nest.
ZB Hd, ------- Heath Hen, eggs and nest.
ZB JaB, ------ Jay, Blue.
ZB Dum, ------ Duck, Mallard, and young.
ZB Os1, ------- Ostrich Farm, Cal.
ZB Pe, -------- Pelican, group.
ZB Os, ------- Ostrich and young, Egypt.
ZB RoA, ------ Robin, American, nest in tree.
ZB TeC, ------ Teal, Cinnamon.
ZB ThV1, ----- Thrush, Veery.
ZI BSwT, ---- Butterfly, Tiger Swallowtail.
ZI MDax, ---- Moth, American Dagger.
ZI MFa21, ---- Moth, Fall Web-worm, nest.
ZI MPoy, ---- Moth, Polyphemus, cocoon.
ZI MTeA1, --- Moth, Tent caterpillar, showing tents and worms.
ZI BeZ24, ---- Bee, Studying the bee.
BT MbS, ------ Maple, Silver. Leaves and fruit.
BT Hi, -------- Hickory.

KINDERGARTEN Continued.

BT Cg, ——— Cherry, branch with fruit.
BF ViB1, ——— Violet.
BF TtG, ——— Thistle, Globe.
BF WdI, ——— Water-lily. Large leaf used as a raft.
638 BA2, ——— Bee hives.
638 BB22, ——— Bees, swarm covering head of a boy.
637 DA21, ——— Churning butter with old fashioned dasher churn.
634.1 PeB21, ——— "Peaches."
633.6 HA1, ——— Haying on the meadows.
633.3 MB, ——— Gathering sap for maple syrup.
633 OB2, ——— Oats, in sheaf.
D18 PtI6, ——— Children wading.
D18 HuZ3, ——— The stroke that counts. (Blacksmith.)
D18 HuY2, ——— The brook, Huntingdon, Pa.
EK ZC25, ——— "We's done all dis s'mornin.'" (Cotton.)
EK ZC27, ——— Sioux youngsters.
D3 Z, ——— American flag.
D11 BoC, ——— Olmstead Park, Boston, Mass.
D18 CrZ, ——— Children fishing.
D18 ĉpC, ——— A quiet pool along the Cocalico.
D18 HcZ, ——— Miners' children and houses near Hazleton, Pa.
D18 HuZ32, ——— A fresh drink for Grandpa.
D297 Sa2, ——— The pickaninnie's candy store, West Indies. (Sugar Cane.)
D91 Z, ——— Navajo papoose at home, Arizona.
B2 Z11, ——— Little Japanese girls with babies on their backs.
BI Z2, ——— Chinese children.

CHILDREN OF VARIOUS COUNTRIES.

BI Z2, ——— Chinese Children.
B19 SeZ, ——— A Happy Family in a thatched hut, Seoul, Koren.
B18 Z, ——— Children of Manchuria.
C2 AsZ, ——— Some children of the Bisharin Camp, Assuan, ĉgypt.
B2 Z11, ——— Little Japanese girls with babies on their backs.
C8 Zu, ——— A Small Denizen of Zulu-land, South Africa.
B2 Z2, ——— Japanese children and bamboo baskets.
B18 Z, ——— Singalese girls, Ceylon.
B69 RbZ, ——— Father and children, Palestine.
F11 Z11, ——— Helping Mamma iron the clothes, Luzon, P. I.
633.1 RBp, ——— Philippino children and men beating rice.
EK ZC25, ——— "We's done all dis s' mornin'."Picking cotton.
EK ZC27, ——— Sioux youngsters.
A93 AnZ, ——— Starting out with the dog team, Antwerp, Belgium.
A7 KiZ, ——— Milk maids of Kief, Russia.
D297 Sa2, ——— The pickaninnie's candy store, West Indies.
B2 Z13, ——— Eating rice with chopsticks, Japan.
D11 BoC, ——— Children in Olmstead Park, Boston, Mass.
D18 EpC, ——— A quiet pool along the Cocalico, Ephrata, Pa.
1N CBb, ——— Breaker boys, Kingston, Pa.
D18 CrZ, ——— Children fishing, Condersport, Pa.
D18 FsZ, ——— "Peaches," Fremont, Pa.
D18 HcZ, ——— Miners' children and houses near Hazleton, Pa.
D18 HuZ32, ——— A fresh drink for Grandpa, Huntingdon, Pa.
D18 OiZ1, ——— Oil dippers, Oil Creek, Oil City, Pa.
D18 PtI6, ——— Children wading, Potter County, Pa.
1A AO, ——— In the oat field.
1N BB2, ——— Hen coop Oil Company, Warren, Pa.
F11, Z11, ——— Filipino children in their playhouse, Luzon, P. I.
D91 Z, ——— Papoose at home, Navajo Reservation, Arizona.
F8 GrZ1, ——— Eskimo boy "Hello," Greenland.
D18 HuY2, ——— The Brook, Huntingdon, Pa.
E6 PaZ1, ——— Talamancan girls grinding corn.
A3 SpZ, ——— School children at play, Spreewald, Germany.
A15 Z2, ——— Cutting peat in Ireland.
A92 Z, ——— Quaint Street in a Dutch Village, Holland.
A5 NaZ, ——— Wholesale macaroni drying, Naples, Italy.
A8 Z5, ——— A mountain home, Norway.
F11 Z1, ——— Filipino children outside a Native School House, P. I.
B69 BeZ, ——— A Holiday, Bethlehem Mission School, Palestine.
639 DA26, ——— Churning butter in a goat skin, Palestine.
B2 Z15, ——— School girls studying, Japan.
B2 Z21, ——— Peasant woman weaving material for her own clothing, Japan.
B2 Z26, ——— Chrysanthemum, one plant, Japan.
721.1 Jh, ——— Scene in Kyoto, Japan.

KINDERGARTEN—Continued.

D292 Z, ——— Milk Delivery in Jamaica.
F14 Z12, ——— Home life of the Filipino, P. I.
633.5 CoBp4, ——— Preparing cocoanuts for shipment, P. I.
633 OBZ, ——— Housewife grinding oats for bread, Ecuador.
633.2M CA2, ——— Olympian Cotton Mills, Columbia, S. C.
633.1 RC, ——— A rice raft, South Carolina.
B2 Z12, ——— Japanese School Children leave their shoes out of doors.
——— Fun for the boys and girls in their favorite play ground, Ostre Anlaeg, Copenhagen, Denmark.
——— Live Oaks, fringed with Spanish Moss, Charlestown, S. Carolina.
——— Children at play in a farmer's field, near Vossevangen, Norway.
——— Beside the Zuider Zee, thrifty Dutch villagers on fishermen's Wharf, Volendam, Holland.
——— Quaint costumes of village girls, Marken, Zuider Zee, Holland.

DWELLINGS OF VARIOUS PEOPLE.

C2 Z, ——— Village on the Nile, Egypt.
A29 CoZ1, ——— An Old Welsh Cottage, Conway, Wales.
A94 GrZ, ——— Blowing the Alpine Horn, Grindelwald, Switzerland.
E6 PaZ, ——— Native home near Panama canal zone.
D2 MeZ, ——— Home of the Peon—the Adobe Hut, City of Mexico.
A1 Z, ——— A Highland Home, Scotland.
A15 Co, ——— A County Cork Cottage, Ireland.
A15 Ke, ——— A Farm-yard scene, County Kerry, Ireland.
A15 Z1, ——— Interior of an Irish Cabin.
A8 Z5, ——— A mountain home, Norway.
A92 Z, ——— Quaint street in a Dutch village, Holland.
A94 Gr, ——— A mountain chalet, Grindelwald, Switzerland.
B2 Z24, ——— A typical mountain hut in the heart of old Japan.
F14 Z12, ——— Home life of the Filipinos in their thatched huts, P. I.
A2 WiZ, ——— Thatched cottages of Shanklin, Isle of Wight, England.
F14 Z, ——— Street scene, Philippine Islands.
F14 Z13, ——— Primitive carabao cart, Philippine Islands.
D48 Pt25, ——— Barkpeeler's cabin, Nelson Run, Potter County, Pa.
D48 Pt18, ——— Lumbering camp, Potter County, Pa.
D48 Ti, ——— Log camps in Tioga County, Pa.
D48 Pt19, ——— Portable camps, Potter County, Pa.
D48 PiZ1, ——— Back yards, Pittsburg, Pa.
F8 CrG, ——— Eskimo women, Greenland.
722.1 Jo, ——— Home of Count Okuma, Tokyo, Japan.
633.1 RBi, ——— Shelling rice and gossiping with the neighbors, Cashmere.
637 AA5, ——— Norwegian girls tending cows and goats, Norway.
D48 PiZ11, ——— Only entrance to the home of one boy, Pittsburg, Pa.
C2 GiZ1, ——— Bedouins, Gizeh, Egypt.
D48 Z921, ——— Streets where men live.
D91 Mo41, ——— Moki towns, Arizona.
D91 Na4, ——— Navajo Reservation, Arizona.
D91 Z21, ——— Blanket weaving, Navajo Reservation, Arizona.
B19 SeZ, ——— Thatched hut of the Korean Peasant, Seoul, Korea.
——— People of the frigid North, Lapp home and family, in the Tromsdal, near Tromsoe, N. Norway.
World's most unique inhabitants, Esquimaux and their "toupiks" (summer tents), Greenland.
——— Laplander family and sledge-dog, outside their summer
——— home, on a hillside in Norway.
——— Street peddlers' carts on Elizabeth St., looking north from Hester St., New York City.
——— A Negro Home, Dixie Land, N. C.
——— Timber raft and floating home of natives, Irrawaddy River, Burma.
——— Interior of Breton Village Home, Crach, France.

EDUCATIONAL INSTITUTIONS.

D3 Z, ——— American Flag.
B2 Z15, ——— Japanese School Girls studying.
D292 Z1, ——— Native Jamaican School Children, reciting in school.
A3 SpZ, ——— School children at play, Spreewald, Germany.
F14 Z1, ——— Filipino children outside a native school house, P. I.
B69 BeZ, ——— A holiday at Bethlehem Mission School, Palestine.
B2 Z112, ——— Japanese School Children leave their shoes out of doors.
E62 GuZ, ——— "Future citizens of the equatorial America," Guayaquil.

EDUCATIONAL INSTITUTIONS—Continued.

D18 WaZz4, ---Cornplanter Indian School Children at School, Warren County, Pa.
D18 CdH1, ----Tom Torlin, Navajo, as he arrived at Carlisle Indian School, and three years later.
D18 Cd1, ------Eskimos as they arrived at Carlisle Indian School and later.
D18 CdH1, -----Carlisle Indian Industrial School. First party of Sioux boys, 1879.
D18 OvI1, -----Institute for the Blind, Overbrook, Pa.
D18 PhZ1, -----Night School for foreigners, Philadelphia, Pa.
D18 PhZH1, ----Night School for Negroes, Philadelphia, Pa.
D18 PiZI2, ----Kindergarten, Pittsburg, Pa.
D18 PiS22, ----Domestic Science, making bread, Pittsburg, Pa.
D18 PiS11, ---- " cooking oysters, Pittsburg, Pa.
D18 PiS23, ---- " lesson in dish washing, Pittsburg, Pa.
D18 PiS21, ---- " making pastry, Pittsburg, Pa.
D18 PiS2, ----- " serving, Pittsburg, Pa.
D18 PiS1, -----Manual Training, carpenter shop, Humbold School, Pittsburg, Pa.
D18 PiSI3, ---- " class in Birmingham school, Pittsburg, Pa.
D18 PiSH1, ---- " exhibit of cardboard work, Pittsburg, Pa.
D18 PiS12, ---- " exhibit of work, Pittsburg, Pa.
D48 HaL214, --Specimens of wood work in Educational Museum at Harrisburg, Pa.
D18 HaL216, -- " of sewing as taught in public schools, Educational Museum, Harrisburg.
D18 HaL213, -- " of sewing as taught in public schools, Educational Museum, Harrisburg.
D18 HaL215, --Rug woven by feeble-minded boy, Educational Museum, Harrisburg.
D18 ChZ, -----Evolution of school buildings from 1818 to 1902, Chester County.
D18 EpG, -----Academy founded in 1857, Ephrata, Pa.
D18 VaS, -----Old School House, Valley Forge, Pa.
D18 CgH, -----High School building, Chester, Pa.
D18 PhG8, -----Main building of Girard College, Philadelphia, Pa.
D18 PhH3, ----Boy's High School, Philadelphia, Pa.
D18 PhG75, ----Drexel Institute, Philadelphia, Pa.
D18 PiG1, -----Carnegie Institute, Pittsburg, Pa.
BT Z12, ------Hamilton Street School House, Harrisburg, Pa.
----------"Best I guess is the old Recess."
----------Schoolboys and teacher, beside the Irrawaddy River, Burma.

DOMESTIC SCIENCE COOKING.

----------Cereals, ---------- pages 78 and 79
----------Wheat,
----------Rice,
----------Corn,
----------Harvesting, ---------- page 78-83
----------Vegetables, ---------- page 79
----------Fruit and Nuts, ---------- page 83
----------Stimulants, ----------pages 80 and 81
----------Coffee,
----------Tea,
----------Cocoa,
----------Sugar Plants, ---------- page 80
----------Cane,
----------Beet,
----------Maple,
----------Meat, ---------- page 82
----------Beef,
----------Mutton,
----------Pork.
----------Fish, ----------pages 76 and 77
----------Cod,
----------Herring,
----------Shad,
----------Dairy Products, ---------- pages 77 and 78
----------Milk,
----------Butter,
----------Cheese,
Homes in Many Lands, ---------- page 67

EDUCATIONAL INSTITUTIONS—Continued.

633 WE3, ____Bread made from common wheat and from Durum wheat.
633 WE3, ____Muffins made from Durum wheat.
633 OB2, ____Oats in sheaf.
B2 Z13, ____Eating rice with chopsticks, Japan.
633.4M TZe, ____Making tea in a rich native's home, Peking, China
D48 PiS22, ____Making bread, Pittsburg, Pa.
D48 PiS14, ____Cooking oysters, Pittsburg, Pa.
D48 PiS23, ____Lesson in dish washing, Pittsburg, Pa.
D48 PiS21, ____Making pastry, Pittsburg, Pa.
D48 PiS2, ____Serving, Pittsburg, Pa.

SEWING SCHOOLS.

Vgetable Fibres, ____pages 81 and 82
Cotton,
Hemp,
Flax.
Animal Fibres, ____page 81
Wool,
Silk.

D48 HaL216, __Specimens of sewing as taught in public schools, Educational Museum, Harrisburg.
D48 HaL213, __ " of sewing as taught in public schools, Educational, Museum, Harrisburg.

MANUAL TRAINING.

Forest Products, ____pages 73, 74 and 75
Lumber, ____pages 73, 74 and 75
Oil, ____page 72 and 73
Turpentine.
Mineral products, ____page 76
Coal, ____pages 71 and 72
Coke, ____page 72
Iron, ____pages 70 and 71
Steel, ____page 71

D48 PiS1, ____Carpenter shop, Humbold School, Pittsburg, Pa.
D48 PiS14, ____Class in Birmingham School, Pittsburg, Pa.
D48 PiS11, ____Exhibit of cardboard work, Pittsburg, Pa.
D48 PiS12, ____Exhibit of work, Pittsburg, Pa.
D48 HaL214, __Specimens of wood work in Educational Museum at Harrisburg.

BEAUTIFYING AMERICA.

D48 PhY23, ____Rustic bridge at Devil's Pool, Philadelphia, Pa.
D48 HaC1, ____Long walk in Capitol Park, Harrisburg, Pa.
D48 HaC, ____Posters in Capitol Park, Harrisburg, Pa.
D47 BuB, ____Avenue of trees, Buffalo, N. Y.
D48 EpC1, ____On the Cocalico, path to Brother House, Ephrata, Pa.
BF Hy, ____Hyacinths in Capitol Park, Harrisburg, Pa.
BF WdS, ____Sweet-scented water-lily, Easton, Mass.
BF Az1, ____Azalea in Capitol Park, Harrisburg, Pa.
BF Le, ____Laurel.
BT Ma, ____Magnolia.
D48 PiC1 ____Entrance to Highland Park, Pittsburg, Pa.
D48 PhC65, ___Smith Memorial, Fairmount Park, Philadelphia, Pa.
D48 GeD41, ____National Monument, National Cemetery, Gettysburg, Pa.
D48 GeR1, ____Reynold's Grove, Gettysburg, Pa.
D48 HaA, ____Susquehanna Gap from Reservoir Park, Harrisburg, Pa.
D48 PhC97, ____Lake in the Zoo, Fairmount Park, Philadelphia, Pa.
D48 AlL4, ____Carnegie Library, Allegheny, Pa.
BT CyB, ____Bald Cypress in Capitol Park, Harrisburg, Pa.
D48 HaG11, ___View in Capitol Park, showing fountain, Harrisburg, Pa.
D48 HaB, ____West State Street, Harrisburg, Pa.
D48 HaG112, __State Capitol, Harrisburg, Pa.
D48 PhG8, ____Main Building, Girard College, Philadelphia, Pa.
D53 WaA2, ____Gardens in front of Agricultural Bureau, Washington, D. C.
D53 WaE38, ___The Garfield Monument, Washington. D. C.
D53 WaE8, ____Sherman Park and Washington Monument, Washington, D. C.
D53 WaL1, ____Library of Congress, Washington, D. C.
D52 BaZ, ____Hedge to screen trolley track, Baltimore, Md.
D48 Z921, ____Streets where men live.
D48 Z92, ____Fields where cattle live.
D48 PhC22, ___Lily Ponds and Flower Beds, Fairmount Park, Philadelphia, Pa.

BEAUTIFYING AMERICA—Continued.

DIS AlC, ____ The Lake, West Park, Allegheny, Pa.
DIS PiZH, ____ Only entrance to the home of one boy, Pittsburg, Pa.
DIS PiZI, ____ Back yards, Pittsburg, Pa.
DIS HcZ, ____ Miner's children and homes, Hazleton, Pa.
DIS PhC, _____ River drive and tunnel, Fairmount Park, Philadelphia, Pa.
DIS SpT, _____ Sprnce Creek Tunnels.
DIS HpA, _____ Horse Shoe Curve, near Altoona, Pa.
BT Z1, _____ Free butchery, Mechanicsburg, Pa.
BT Z12, _____ Free butchery, school house, Harrisburg, Pa.
BT Z15, _____ Free butchery, Westtown, Pa.
free butchery, Harrisburg, Pa.
BT Z11, _____ Free butchery, Westtown, Pa.
BT Mb2, _____ Avenue of maples at Hockanum, Conn.
BT OaP, _____ Pin Oak.
BT PiW22, ____ Avenue of White Pine at Wellesley, Mass.
BT Wa, _____ Removing Walnut Tree, Harrisburg, Pa.
DH CbW, _____ The Washington Elm, Cambridge, Mass.
DH BoC, _____ Olmstead Park, Boston, Mass.
DH WeG, _____ Town Hall, Wellesley, Mass.
BT PoW, _____ River Road at Harrisburg, before trimming poplars
BT PoW1, _____ River Road at Harrisburg, after trimming poplars
D52 BaY, _____ Ruxton Station, Suburbs of Baltimore.
DIS PhY1, _____ Station at Ardmore, Pa.
D16 HaC, _____ Sheep in Keeney Park, Hartford, Conn.
BT G1, _____ Avenue of Ginkgo Trees, Washington, D. C
BT Ho, _____ Horse Chestnut Trees, New Cumberland, Pa.
BT MbN, _____ Norway Maple.
BT MbS8, _____ Sugar Maple trees, West Chester, Pa.
DIS PiB6, _____ Sixth Avenue, Pittsburg, Pa.
DIS WjW, _____ General Office Building and Park, Westinghouse Co., Wilmerding, Pa.
DIS WjW1, _____ Flower beds and park, Westinghouse Co., Wilmerding, Pa.
DIS WjT, _____ Tenement houses of Westinghouse Co., Wilmerding, Pa.
DIS WjA, _____ Birdseye view of town, Wilmerding, Pa.
BT E1, _____ Avenue of elms at Belmont, Mass.
BT Li, _____ Avenue of Linden trees.
BT SpC, _____ Spruce, Colorado Blue.

INDUSTRIES.

IRON.

IM LM1, _____ Scoop of steam shovel, Minn.
IM LM2, _____ Steam shovel at work, showing how track is laid, Burt mine, Mesabi Range, Minn.
IM IB, _____ Plant of blast furnace, Pittsburg, Pa.
IM IB1, _____ Great ladle pouring molten metal into revolving endless chain of pig iron moulds, Pittsburg, Pa.
IM IB11, _____ Front view of ladle emptying molten metal into moulds, Pittsburg, Pa.
IM IB112, _____ Stream of slag being granulated by water as it runs from blast furnace, Pittsburg, Pa.
IM IB121, _____ Carrying away and loading "pigs," blast furnace, Pittsburg, Pa.
IM IB122, _____ Emptying cooled pig iron from moulds into cars, Pittsburg, Pa.
IM IB123, _____ Making moulds for pig iron, blast furnace, Pittsburg.
IM IB121, _____ Metal yard, showing piles of pig iron, blast furnace, Pittsburg, Pa.
DIS PiZH1, _____ Wetting down bed of pig iron in blast furnace, Pittsburg, Pa.
IM IC1, _____ Ore cars ready for dock in R. R. yards, Two Harbors, Minn.
IM IC11, _____ Surface of ore dock, Two Harbors, Minn.
IM IC12, _____ Overlooking ore docks, Two Harbors, Minn.
IM IC121, _____ Great electric hoists, Hughlet and Brown, at work unloading vessels, Conneaut, Ohio.
IM IC125, _____ Passing tug showing unloaders at work on both sides of the harbor, Conneaut, Ohio.
IM IC126, _____ King Clam-shell hoists at work unloading, Conneaut, Ohio.
IM IC127, _____ Brown electric hoist dumping ore into car, Conneaut, Ohio.
IM IC128, _____ Loading ship, Two Harbors, Minn.
IM IC129, _____ Twelve ton bite, Hughlet Clam-shell hoist, in vessel's hold, Conneaut, Ohio.
IM IC13, _____ Iron ore and coke cars, Pittsburg, Pa.
IM IC131, _____ Great Lakes freighter, laden with ore, Conneaut, O.
IM IDB1, _____ Aerial bridge, Duluth, Minn.

INDUSTRIES—Continued.

IRON—Continued.

IM IDB11, ____Great bridge on wheels, as high as Brooklyn bridge, Conneaut, Ohio.
IM IDB12, ___Kinzua bridge, Bradford, Pa., 301½ ft. high, and 2,100 ft. in length.
D48 HuZ2, ____Old ore furnaee in Hill Valley, Huntingdon, Pa.
D48 PiU, _____Union Bank Building, 24 stories, Pittsburg, Pa.

STEEL.

IM SA3, _____Modern steel plant along the Monongahela River, Pittsburg, Pa.
IM SA31, _____Yard of steel works, Pittsburg, Pa.
IM SA311, ____Maehine shop at Gassaway.
IM SA312, ____Trip Hammers, steel works, Pittsburg, Pa.
IM SA32, _____Charging a Bessemer converter, steel works, Pittsburg, Pa.
IM SA321, ____Pouring molten steel into ingot moulds, from ladle at a Bessemer converter, Pittsburg, Pa.
IM SA322, ____Red-hot steel beam from rolling proeess, being eut into lengths by buzz saw, Pittsburg, Pa.
IM SDB, _____Steel viaduet over Des Moines River, C. & N. W. R. R.
D48 HoSi, ____Running a heat, molten iron flowing from a monster blast furnaee, Steel Works, Homestead, Pa.
D48 HoS11, ___Train laden with molten iron leaving blast furaces, Steel Works, Homestead, Pa.
D48 HoS12, ___Interior of a stripper—removing moulds from red hot ingots. Steel Works, Homestead, Pa.
D48 HoS121, __A train of white hot steel ingots at the stripper. Steel Works, Homestead, Pa.
D48 HoS13, ___White hot ingot and 100 ft. of bloom just rolled from an ingot. Steel Works, Homestead, Pa.
D48 HoS14, ___Rolls and shears in blooming mill, hot ingot is rolled and eut into billets. Steel Works, Homestead, Pa.
D48 HoS141, __Seventy-five ft. of red hot bloom sheared into seetions, forms, billets. Steel Works, Homestead, Pa.
D48 HoS15, ___Huge Bessemer eonverter at work—eonverts iron into steel in 15 minutes. Steel Works, Homestead, Pa.
D48 HoS16, ___Hot slab entering rolls to be rolled in 50 feet plate. Rolling mill, Homestead, Pa.
D48 HoS17, ___Piling huge steel beams in the loading yards. Steel Works, Homestead, Pa.
D48 HoS19, ___Hoppers and eranes for loading steel billets in cars. Steel Works, Homestead, Pa.
D48 HoS18, ___Soaking pits and white hot ingot going into rolls, struetural mill. Steel Works, Homestead, Pa.
D48 HoS2, ____ Running molten iron into ladles to be eonverted into steel. Steel Works, Homestead, Pa.
D48 HoS21, ___Shaping a big I beam, making struetural steel. Steel Works, Homestead, Pa.
D48 HoS22, ___Great bridge over the Monongahela. Train of molten iron approaehing Steel Works.
D48 HoS23, ___Steel plate 6 x 25 ft. and huge shears for trimming. Steel Works.
D48 HoS24, ___Sawing a hot 20-inch beam, rolling mill, Steel Works.
D48 BsZ, _____The "hot bed" where steel rails are eooled after being rolled, rail mills, Braddoek, Pa.
D47 Z, _____The Lusitania, New York.
D48 PiK2, _____Skeleton of skyseraper, Pittsburg.
D48 PiK21, ____Skyseraper completed, Pittsburg.

COAL.

IN C, _____Map showing distribution of eoal in U. S.
IN C1, _____Map of anthraeite area in Pennsylvania.
IN CA1, _____Out-eroppings of eoal veins near earth's surfaee, Seranton, Pa.
IN CA11, ____Breaking and loading eoal in mines after a blast has knoeked it down.
IN CA13, _____Abandoned mine, showing how prop timber is used to support roof of tunnels, Seranton, Pa.
IN CA131, ____Underground stable, bituminous eoal region, Connellsville, Pa.
IN CA132, ____Bituminous eoal vein, showing miners at work, Connellsville, Pa.

INDUSTRIES—Continued.

COAL—Continued.

IN CA14, ____Loading cage with car of coal, Scranton, Pa.
IN CA15, _____Dumping culm, slate pile, Scranton, Pa.
IN CA151, ____Coal dump and engine house, Coxton, Pa.
IN CA16, ____Miner drilling and laborer loading Black Diamonds in the rough, Scranton, Pa.
IN CAs1, ____Surface coal strippings.
IN CAs11, ____Mammoth coal vein one mile underground, Kohinoor Colliery, Shenandoah, Pa.
IN CAs12, ___Link chain dirt scraper, Shenandoah, Pa.
IN CAs121, ___Strippings and breaker, Lattimer, Pa.
IN CBb, _____Breaker boys, Kingston, Pa.
IN CBb1, ____Coal breakers, Mauch Chunk, Pa.
IN CBb11, ___Oscillating screen separating grate coal from small size, in breaker, Scranton, Pa.
IN CBb12, ___Breaker at Ashley, Pa.
IN CBb13, ___Coal storage, South Plainfield.
IN CC1, _____Train-load of coal leaving mine for market, near Pittsburg, Pa.
IN CC11, _____Shipping coal after the strike. Coal breaker in background. Ashley, Pa.
IN CC12, _____Train-load of coal. Fresh from the Pittsburg fields, for Lake Superior consumption. Conneaut, Ohio.
IN CZ, _____Stump standing as it grew in coal measures, Glasgow, Scotland.
IN CZ1, _____Carboniferous forest.
IN CZ11, _____Fossils from anthracite coal beds.
D18 PiZ11, ____Loaded cars ascending tipple, Coal Mine, Pittsburg.
D18 SgZ11, ____Culm and rock heaps, Shenandoah, Pa.
D48 SuZ, _____Coal dredger on the Susquehanna, Steelton, Pa.
D48 Z11, _____Model. Methods of mining anthracite coal.
IN CA121, ___Entrance to coal mine.
A15 Z2, _____Cutting peat, the vegetable substitute for coal, Ireland.
A92 Z1, _____Dutch women unloading a boat of peat, Holland.
A15 Z1, _____Interior if Irish Cabin, fire of peat.
IN CA12, _____Mine entrance, Westmoreland County, Pa.
D298 Sa3, _____Coaling, St. Lucia, B. W. I.

COKE.

IN DA1, ____General view of ovens. Loading coke into cars, Pa.
IN DA12, _____Mountain of coke, coal tank beyond, Pittsburg, Pa.
IN DA13, _____Under coal tank. Showing coke ovens and their smoke, Pittsburg, Pa.
IN DA14, ____Filling a coke oven with coal, Pa.
IN DA15, _____Coke oven being repaired. Bee Hive coke oven, Pa.
IN DA16, _____Automatic coal heaver. Coke Works, Pittsburg, Pa.
IN DA17, _____Modern coke works; showing 10,000 ton coal tank, Pittsburg, Pa.
IN DA18, _____Drawing coke from oven, Connellsville, Pa.
IN DC12, ____Trains loaded with pig iron. Showing coke ovens on left, Pittsburg, Pa.
IN DC13, ____Dumping coal in car which fills coke ovens, Pa.
IN DZ1, _____Hillside effected by constant smoke and fumes, Coke Region, Pa.
IN DA151, ____Coke ovens, Pittsburg, Pa.

OIL AND GAS.

IN BA _____A flowing well, Bradford, Pa.
IN BA11, _____Filling the shell to torpedo an oil well.
IN BA1, _____Sectional view of oil wells. Drilling and pumping.
IN BA12, _____Flowing well, side flow, Bradford, Pa.
IN BA121, ____Tarr farm, Oil Creek, 1865.
IN BA1211, ___Jas. S. McCray farm, Petroleum Center, Oil Creek, 1870-73.
IN BA2, _____Location of Drake well, Oil Creek. The first well.
IN BA21, _____Pithole oil wells, 1865.
IN BA211, ____Site of Pithole oil wells, 1895.
IN BA22, _____Petroleum Center, 1863.
IN BA221, ____Drilling a well.
IN BA222, ____Oil wells at Petrolia, 1876.
IN BA223, ____Pumping wells at Bear Creek, Pa.
IN BB2, _____Hen Coop Oil Co., Warren, Pa.
IN BB21, _____Burning oil tank, Warren, Pa.
IN BB22, _____Oil tanks set on fire by lightning, Kane, Pa.

INDUSTRIES—Continued.

OIL AND GAS—Continued.

IN BB221, ---Burning oil tank, Bradford, Pa.
IN BC, ------First class passenger packet down Oil Creek, 1864
IN BC1, -----Oil Creek. Early mode of transportation, 1864.
IN BC11, ----Oil Creek. Carrying oil with a neck-yoke, 1860.
IN BC13. ----Shipping oil in 1864, Story Farm, Oil Creek.
IN BC14, ----Hauling oil in barrels to R. R. in 1860, Oil Creek.
IN BC15, ----Oil tank cars ready for shipping refined oil.
IN BCp, -----Oil pipe line, Kane, Pa.
IN BCr, -----Loading tank cars with crude oil, by gravity.
IN BD1, -----Burning gasoline tank, Warren, Pa.
IN BZ1, -----Great oil fire at Titusville.
IN BZ12, ----Oil Creek freshet jam in 1864.
IN BZ121, ---Oil Creek freshet jam in 1864.
D48 TjY, -----Drake Oil Well and Col. Drake, Oil Creek Valley.
D48 TjZ, -----Titusville, Pa. Flood of 1894.
D48 OiZ1, ----Shipping oil in boats, 1863.
D48 TjZ, -----Oil dippers, Oil Creek, 1868.
D48 MbZ, -----Nitro Glycerine torpodeo wagon, McKean County, Pa.
D49 Z, -------Fifty oil cars. Atlantic Refining Co., N. J.
D49 SvZ, -----Pumping oil from the sea, wells in the surf, Summerland, Cal.
IN AA, ------Gas well near Kane, Pa. 100,000,000 cubic ft. daily. Note ice on pipe.
IN AA1, -----An uncontrollable gas well.
D47 Rn, ------Oil bearing rock. Rock City, N. Y.
D47 Rn11, ---- " " " " "

LUMBER.

IN L, -------Comparison of relative production of lumber by nine States in 1880 and 1907. Nov. 1908.
IN LA1, -----Fluming lumber from the mountains.
IN LA12, ----Cutting Bull Pine forest. Conservative lumbering. Black Hills, Natural forest.
IN LA121, ---Recently cut-over forest lands. Showing heaps of brush that would burn at a fearful rate, Ridgway, Pa.
IN LB11, ----Glenn Falls boom.
IN LB12, ----Log boom on the Susquehanna, Williamsport, Pa.
A8 Z6, ------Standing saws in a Norwegian saw mill.
IN LB21, ----Port Blakely mills, the largest in the world, Washington.
B2 Z, -------Japanese saw mill, converting giant crytomerias into lumber.
BI PeZ, ----Chinese saw mills.
IN LB25, ----Lumber yard, Warren, Pa.
D48 Cb, -----Cameron County sled load of logs, Sinnamahoning. 1901.
D48 Co, -----Castello, Pa. Barkpeeler's cabin, Nelson Run. 1897.
D48 CrM, ----Coudersport, Pa. Mina saw mill, 1901.
D48 CrMi, ---Coudersport, Pa. Cutting and peeling logs. Mina. 1898.
D48 CrZ, ----Coudersport, Pa. Children fishing near Corbett. 1901.
D48 Cs, -----Cross Forks, Pa. Trail of logs, down hill. Kettle Creek
D48 CsL, ----Cross Forks, Pa. Log loader and train. 1895.
D48 CsL1, ---Cross Forks. Pa. Lumber camp. 1902.
D48 CsL11, ---Cross Forks, Pa. Log train. 1900.
D48 EaZ22, ---Eagles Mere, Pa. The big maple tree.
D48 MbB, ----McKean County. Big fill on tramway, Gardeau. 1901.
D48 MeM, ----Mauch Chunk, Pa.
D3 ----------Map showing the Forest Regions of the United States. Nov. 1908.
D48 Pt1, ----Potter County, Pa. Ground slide, Galeton. 1904.
D48 Pt11, ---Potter County, Pa. Log slide, West Branch, near Corbett. 1901.
D48 Pt12, ---Potter County, Pa. Logging scene, Cowley Run, near Austin. 1892.
D48 Pt13, ---Potter County, Pa. Old method of loading logs. Moore's Run. 1890.
D48 Pt14, ---Potter County, Pa. Loading logs on East Fork, Hulls, Pa.
D48 Pt15, ---Potter County, Pa. Log slide at Hammersley. 1908.
D48 Pt16, ---Potter County, Pa. Children wading, Hammersley. 1908.
D48 Pt17, ---Potter County, Pa. Fishing scene at Hulls.
D48 Pt18, ---Potter County, Pa. General lumbering camp, Windfall Run. 1899.
D48 Pt19, ---Potter County, Pa. Portable camps at Windfall Run. 1900.

INDUSTRIES—Continued.

LUMBER—Continued.

D18 Pt2 ——— Potter County, Pa. Original way of making tramroads. 1891.
D18 Pt21, ——— Potter County, Pa. Bark slide to cars. 1896.
D18 Pt22, ——— Potter County, Pa. Skidway of logs. 1895.
D18 Pt23, ——— Potter County, Pa. Log slide, West Branch, near Corbett, 1901.
D18 Ti, ——— Tioga County, Pa. Log camps, Four Mile Run. 1901.
BT Ch3, ——— Chestnut. Branch with nuts.
ZM DeV23, ——— Deer, Virginia. In winter. (Odocoileus virginianus).
ZM DeV5, ——— Deer at Camp Hastings. 1900.
BF InP, ——— Indian pipe. Growing. (Monotropa uniflora).
BT MbS, ——— Maple, Silver. Leaves and fruit (Acer dasycarpum).
BT SpN, ——— Middle aged forest of Norway Spruce (Pice excelsa). Weyer Obert Oesterreich, Austria. 1902.
BT OaC, ——— Oak, Chestnut, branch with acorns. (Quercus prinus).
BF PlR, ——— Plantain, Rattlesnake. (Plantago).
BT Pil, ——— Pine, Long-leaved. Used for turpentine. (Pinus palustris).
BT PiW23, ——— White Pines helping and hindering each other, DuBois, Pa.
BT PiZ, ——— Pine. Surface fire in Pine forest, California.
BT PiW2, ——— Pine, White. Branch with cones (Pinus strobus).
BT PiW21, ——— Pine, White. Clearfield County (Pinus strobus).
D18 1, ——— Pennsylvania. Map showing forest reserves.
BF Rh1, ——— Rhododendron, growing.
BT SpR, ——— Spruce, Red. Group (Picea rubra).
BT Z5, ——— Trees. Forest fires.
D97 Z, ——— Largest log raft ever built, Columbia River, Washington.
B2 MaZ, ——— Hauling timbers for temple repairs, Mara, Japan.
B2 Z3, ——— Coolies carrying heavy timbers, Japan.
IN LB26, ——— Method of piling staves in yard, Marcus Hook, Pa.
——— Scouring logs, Minneapolis, Minn.
——— Elephants in the timber yard, India.
——— Woodmen cutting down a giant Sequota tree, Cal.
——— Big tree logging in the Sierra Nevadas, Cal.
——— Timber raft, Irrawaddy River, Burma.

PAPER.

676 A1, ——— Wood conveyor, Paper Mill, Johnsonburg, Pa.
676 A11, ——— Preparing room.
676 A12, ——— Chipper Room.
676 A14, ——— Digester.
676 A16, ——— Wet Machines.
676 A17, ——— Wash Pits.
676 A18, ——— Beater Room.
676 A19, ——— Wet end of paper machine.
676 A5, ——— Dry end of paper machine.
676 B2, ——— Super calenders.
676 B21, ——— Back section of cutters.
676 B22, ——— Front section of cutters.
676 B23, ——— Finishing Room.
676 B9, ——— Store Room.
676 B91, ——— Supply Room.
——— Cutting logs ready for stripping and making into pulp. Marinette, Wis.
——— Wood pulp in big sheets ready for making into paper. Marinette, Wis.
——— Making wrapping paper out of wood pulp. Marinette, Wis.
——— Folding and packing paper made from pulp of forest trees. Marinette, Wis.

FORESTRY.

D3 5, ——— Map showing the Forest Regions of the United States.
D18 1, ——— Map showing forest reserves of Pennsylvania.
PiW21, ——— Pine, White, Clearfield, Pa. (Pinus strobus).
BT SpN, ——— Spruce, Norway. Middle aged forest in Austria.
BT SpR, ——— Spruce, Red. (Picea rubra).
D18 CaZ11, ——— The Heart of the Forest, Cambria County, Pa.
D18 CrP11, ——— Pine Creek Gorge, from Four Mile, Coudersport, Pa.
D18 AmA, ——— Allegheny mountains from McGarvey's No. 2.
D18 CrM1, ——— Cutting and peeling logs, Mina, Coudersport, Pa.
D18 Cq, ——— Barkpeeler's cabin, Nelson Run, Costello, Pa.
D18 Cb1, ——— First fork of the Sinnemahoning waters, Cameron County, Pa.

INDUSTRIES—Continued.

FORESTRY—Continued.

Az LaA, ----- Langdale Valley, lake district, England.
D48 LhN, ----- Lewistown Narrows, Lewistown, Pa.
D48 MeMA, --- Mauch Chunk, Pa.
A6 BuA, ----- General View of Burgos, Spain, showing hills robbed of timber.
BT BeA, ----- Beech, American. (Fagus ferruginea).
BT Hi, ------ Hickory. (Hicoria ovata).
BT ElA2, ----- Elm, American. (Ulmus americana).
BT Ho, ------ Horse Chestnut, New Cumberland, Pa. (Aesculus hippocastanum).
D48 EaZ22, --- The big maple tree, Eaglesmere, Pa.
BT Li, ------ Linden. (Tilia americana).
BT Mb2, ----- Maple. Avenue of maples, Hockanum, Conn.
BT MbS8, ---- Maple, Sugar, West Chester, Pa. (Acer saccharinum).
BT MbN, ---- Maple, Norway. (Acer platanoides).
BT Gi, ------- Ginkgo. Avenue of trees, Washington, D. C. (Ginkgo biloba).
BT El, ------- Elm. Avenue at Belmont, Mass. (Ulmus).
BT Tu, ------ Tulip Tree, Westbury, L. I. (Liriodendron tulipifera).
BT Sy, ------- Sycamore, Paxtang, Pa. (Platanus occidentalis).
BT SpC, ----- Spruce, Colorado Blue. (Picea pungens).
BT OaP, ----- Oak, Pin. (Quereus palustris).
BT CyB, ----- Cypress, Bald, Harrisburg, Pa. (Taxodium distichum).
BT PiW22, --- Pine, White, Avenue at Wellesley, Mass.
D78 Z1, ------- Gum and cypress growth in New Madrid, Missouri.
D56 DiZ, ------ Dismal Swamp, N. C. Cypress knees in the foreground.
BT BiP, ----- Birch, Paper. (Betula papyrifera).
BT OaC, ----- Oak, Chestnut, branch with acorns. (Quereus prinus).
BT Li2, ------ Linden. Branch with blossoms.
BT Mb1, ----- Maple blossoms. (Acer).
BT MbS, ----- Maple, Silver. Leaves and fruit. (Aeer dasycarpum).
BT PiL, ----- Pine, Long-leaved. Used for turpentine. (Pinus palustris).
BT PiW2, ---- Pine, White. Branch with cones. (Pinus strobus).
BT Ch31, ----- Chestnut Blossoms. (Castanea sativa).
BT Ch3, ----- Chestnut, branch showing nuts.
D48 WaY, ----- Bent Run, Warren, Pa.
D48 EaY, ----- Water falls at Forksville, Eaglesmere, Pa.
D48 GdS12, --- Lake Ganoga, Pa.
D48 Z85, ------ Cobb's Creek, Pa.
D48 PoP, ----- Paradise Falls, Pocono, Pa.
D48 McT, ----- Onoko Glen, Mauch Chunk, Pa.
BT PiW24, --- Pine, White. Seedlings at Mt. Alto nursery. (Pinus strobus).
BT PiW23, --- Pine, White. Helping and hindering each other, DuBois, Pa.
BT PiZ, ------ Pine. Surface fire in pine forest, Cal.
BT Z5, ------- Forest fire.
D12 A12, ------ Looking down Spray Valley, Alberta, Canada, showing timber line.
D48 LgZ, ----- The work of lightning, Lewisburg, Pa.
D48 Pt17, ----- Fishing scene at Hulls, Potter County, Pa.
IN DZ1, ----- Hillside effected by constant smoke and fumes, Coke Region, Pa.
IN LA13, ---- Forrowed slope resulting from freshets due to removal of timber.
IN LA121, --- Recently cut-over forest land, showing heaps of brush, Ridgway, Pa.
IN LA12, ---- Cutting in Bull Pine forest, Black Hills, S. D.
D48 JoZ1, ----- Miles of wreckage after flood of 1889, Johnstown, Pa.
D48 JoZ, ----- Houses wrecked by flood, Johnstown, Pa.
D48 RnZ, ----- Train on B. & O. R. R., wrecked by washing away of embankment.
D48 PiA1, ----- Confluence of Allegheny and Monongahela Rivers, Pittsburg, Pa.
D78 KaA, ----- Deluged East Bottoms, Kansas City, Mo.
D7 ---- ------- Map showing area drained by Ohio River and tributaries.
D48 WgZ, ----- Land slide on Pittsburg and Lake Erie R. R., Westmoreland County, Pa.
BT Oa, ------ Oak (Quercus).
BT Cy, ------ Cypress "knees." (Taxodium distichum).
BT OaS, ----- Oak, Scarlet. Natural graft of two trees, Long Island.
BT OaZ1, ---- Oak. Tree tumors.
BF InP, ----- Indian pipe (Monotropa uniflora).

INDUSTRIES—Continued.

FORESTRY—Continued.

IN LB11, ---- Where the forests go. Famous Glen Falls Boom. Glen Falls, N. Y.
D74 Ma3, ----- Sunset from Mackinac Island, Mich.
ZI MBrX, --- Moth, Brown-tail. Larva and egg mass. (Euproctis chrysorrhoe).
ZI MGe, ----- Moth, Geometer. (Cymatophora).
ZI MGe1, ---- " Larva.
ZI MTul, ---- Moth, Tussock (Hemerocampa).
ZI Ga, ------- Galls. Various nut galls.
BT Ch2, ----- Chestnut twigs stung by 17 year locust.
BT Ap2, ----- Apple tree killed by girdling of meadow mice. (Pyrus matus).
BT Pe, ------ Pear Tree girdled by meadow mice (Pyrus communis).
ZI MFa2l, --- Moth, Fall Web-worm. Nest. (Hypantria cunea).
ZI MDax, ---- Moth, caterpillar, American Dagger. (Apatela americana).
ZI Mlmx, ---- Moth, Imperial, caterpillar. (Eacles imperialis).
ZI Moa2x, --- Moth, Yellow-necked oak worm, caterpillar. (Datana ministra).
ZI MSpEx, -- Moth, Elm Sphinx, caterpillar. (Ceratomia amyntor).
ZI MScx, ---- Moth, Sehizura ipomoeae, caterpillar.
ZI BMr2, ---- Butterfly, Mourning-cloak, chrysalis. (Vanessa antiopa).
ZI MSpSx, --- Moth, Smerinthid Sphinx, caterpillar (Smerinthus excaetus).
ZI MCnR1, -- Moth, Red Underwing (Catocala cara).
ZI MTeA1, --- Moth, Tent-caterpillar (Mataeosoma americana). Showing tents.
ZI MTeA, ---- Moth, Apple tree tent caterpillar. (Malaeosoma americana).
PG EDd1, ---- Showing treeless lands. Whirling sand, Columbia River, Oregon.
D91 PeL, ----- Petrified Forest, Arizona. Log bridge spanning chasm.
D48 PiZ2, ----- Snow scene, Pittsburg, Pa.
D48 Ka1, ------ Winter's phantoms, Kane, Pa.
IN L, -------- Comparison of relative production of lumber by 9 states in 1880 and 1907.
D18 MeMA, --- Timbered mountains, Mauch Chunk, Pa.
BT Ch3, ------ Chestnut, branch with nuts.
BT Ch31, ----- Chestnut, branch with blossoms.
BT Do6, ----- Dogwood, blossoms.
BT Do61, ---- Dogwood, berries.
---------- Bringing wood into Simla, India.

TURPENTINE.

BT PiL, ----- Pine, Long-leaved.
D58 SaZ4, ----- Greatest resin market in world, Savannah, Ga.
---------- In the great pine forest of the South, gathering crude turpentine, North Carolina.
---------- Distilling Turpentine from crude resin—in the Pine forest of North Carolina.
---------- Sweating out tar from Pine Wood in the turf covered tar kiln—North Carolina.

FISH AND FISHING.

ZF BaS1, ---- Bass, Striped. Small (Roccus lineatus).
ZF BaB, ----- Bass, Black. Large-mouthed (Micropterus salmoides).
ZF BaS, ----- Bass, Striped. (Roceus lineatus).
ZF BaB1, ---- Bass, Black, small-mouthed (Micropterus dolomieu)
ZF CbG, ----- Catfish, Gaff-topsail. (Feliehthys felis).
ZF CoA, ----- Codfish. Twenty minutes eatch with hand lines. Kodiak Is. (Gadus macrocephalus).
ZF Co, ------- Codfish. Drying in flake yard. Gloucester, Mass. (Gadus callarias).
ZF Z, ------- Fishes. Young fish and eggs.
ZF He, ------ Herring. Unloading fish. (Clupea).
ZC My, ------ Mussel.
ZC OyP, ----- Oyster, Pearl. Cut for manufacture. (Meleagrina).
ZC OyP1, ---- Oyster, Pearl. Buttons made from shell. (Meleagrina).
ZC OyP11, ---- Oyster, Pearl. Buttons made from shell. (Meleagrina).
ZF Pi, ------- Pike. (Esox lucius) .
ZF Pk, ------ Pike-perch (Stizostedion vitreum),
ZF Sa, ------ Salmon fry. Evolution (Salmonidae).
ZF ShA1, ----- Shad. Bringing in the seine. Potomae River. (Pomolobus pseudoharengus).
ZF ShA, ----- Shad, Alewife. Hauling in seine. Albemarle Sound. (Pomolobus pseudoharengus).

INDUSTRIES—Continued.

FISH AND FISHING—Continued.

ZF TrB, ____ Trout, Brook, in trough. (Salvelinus fontinalis).
ZF TrL, ____ Trout, Lake (Cristivomer namayeush) and Brook Trout (Salvelinus fontinalis).
ZF TrR, ____ Trout, Rainbow. (Salmo irideus).
ZF Wh, ____ Whitefish Packed. Lake Erie. (Coregonus).
ZF Wh4, ____ Whitefish decomposed.
DI Z1, ____ Fishermen, Gaspe Coast, Canada.
D49 Re, ____ Redondo Beach, Southern California.
D48 Pt17, ____ Potter County. Fishing scene at Hulls.
A2 PeZ, ____ Cornish Fishwives with their baskets, Penzance, England.
A15 QZ, ____ Sea Gulls off Queenstown, Ireland.
D48 CrZ, ____ Coudersport. Children fishing near Corbett.
---------- Scotch herring, best in world—thousand of kegs ready to ship. Wick, Scotland.
---------- Beside the Zuider Zee—thrifty Dutch villagers on the fishermen's wharf at Volendam, Holland.
---------- Quaint costumes of village girls on the wharf beside the fishing boats, Marken, Zuider Zee, Holland.
---------- Mt. Hood one of America's famous mountains, from Lost Lake, Oregon.
---------- Unloading dried fish from boats into the warehouses at Tromsoe, Northern Norway.

LEATHER.

636.2 A, ____ Cattle Ranch.
636.21 As, ____ Removing pelts from sheep. Armour's Packing House.
D48 Pt21, ____ Potter County. Bark slide to cars.
---------- Rolls of Leather. (Loading steamer).

INDUSTRIES (MISCELLANEOUS).

---------- Pottery making, Puebla, Mexico.
---------- Wheeling salt to stacks, Salt fields of Solnen, Russia.
---------- Silk Mills, Scranton, Pa.
---------- Rubber Tree grove. Extracting rubber. Ubero Plantation. Tehuantepec, Mexico.

AGRICULTURE.

Bees.

ZI Be, ____ Life and work of the honey bee.
ZI Be1, ____ Queen, drone and worker.
ZI Be11, ____ Queen and retinue.
ZI BeZ2, ____ Sectional view of bee's tongue.
638 BA, ____ Detroit City bee-yard.
638 BA4, ____ Bee tree.
638 BA2, ____ Hives.
638 BB22, ____ Swarm covering the head of a boy.
638 BB42, ____ Frame of queen cells.
638 BB2, ____ A swarm of bees.
638 BB23, ____ Swarm on limb of tree.
638 BB21, ____ Symmetrical swarm on tree.
638 BB43, ____ Soap bubbles showing honey-comb effect.
638 BB4, ____ Natural comb building in frames.
638 BB41, ____ Fully built brood comb.
638 BZ2, ____ Effect of a bee sting near the eye.
ZI BeZ24, ____ Studying the bee.
BF ClW1, ____ Clover, White (Trifolium).
BF ClW, ____ Clover, White (Trifolium repens).
633 BuA2, ____ Buckwheat in blossom on a Pennsylvania farm.
BT Li2, ____ Linden blossoms (Tilia americana).
BF Skc2, ____ Skunk cabbage. Fertilization by honey bee, March, 1900.

Dairying—Milk.

---------- Goats milked while you wait, Palermo, Sicily.
637 AA12, ____ Dairy farm near Pittsburg, Pa.
637 A, ____ "Gailie Gifford," a Jersey cow.
637 AA11, ____ Herd of pure Devon cows.
D83 Be2, ____ Cows at Bear Butte Creek, South Dakota.
D48 PiZ3, ____ Cattle near Pittsburg, Pa.
637 AA1, ____ Grooming and clipping cows, Woodend farm, Minn.
637 AB21, ____ Milking cows at Stewart's dairy farm, New York.
637 AB22, ____ Milker in operation, Little Falls, N. Y.

AGRICULTURE—Continued.

637 BB1, _ _ Bottling milk, Little Falls, N. Y.
637 BB11, ___ Bottling milk.
637 AB2, ____ Milking room.
637 BA, _____ Starr sterilizer.
637 BA12, ___ A heater which pumps milk from tank through heater to get to the proper temperature for separator.
637 BA11, ___ The separator at work, Briarcliffe Farms, near N. Y.
637 BZ1, ____ Water wheel for driving separator.
637 BZ11, ___ Old spring house, Torresdale Dairy, Pa.
D18 St81, ____ Putting cream in paper packages, State College, Pa.
D18 We811, __ Spring house and kitchen under one roof, Waynesboro, Pa.
D18 We81, ___ Stone steps leading down to spring house, Waynesboro, Pa.
D292 Z, _____ Milk delivery in Jamaica.
A7 KiZ, ____ Milk maids of Kief, Russia.
637 BC5, ____ Delivery in Montclair, N. J.
A93 AnZ, _____ Starting out with the dog team, Antwerp, Belgium.
637 BB13, ___ Picturesque and thrifty countrywomen with milk pails balanced on yokes, Goes, Holland.
637 BB12, ___ Bhuttanese milkmen with curious bamboo jars, India.
637 AA5, ____ Pretty Norwegian girls tending cows and goats on the Haukeli Mountains, Norway.
637 BC1, ____ Milk transportation.
637 BC11, ___ Milk in station for shipment.

Dairying—Butter and Cheese.

637 DA21, ___ Churning butter with old-fashioned dasher churn.
637 DA2, ____ The great churn which churns 800 lbs. of butter at a time.
637 BA3, ____ Cans of cream being put into vats of cold water.
637 BA1, ____ Pasteurizer in a creamery.
637 DA21, ___ Working salt into the butter.
637 DB22, ___ Packing prize butter for the European markets, Hasley, Denmark.
637 DB21, ___ Tub butter, South Dakota.
637 DB2, ____ Butter wrapped for market, Cal.
637 Dz1, ____ Old dairy utensils.
D18 St5li, ___ Students testing milk, State College, Pa.
D18 St5111, __ Students propagating pure culture, State College, Pa.
D18 As21, _ _ Pottery, Armstrong County, Pa.
637 DA26, ___ Churning butter in a goat skin, Palestine.
637 EA2, ____ Presses of a cheese factory.
637 EA112, __ Vats in which milk is warmed.
637 EA1, ____ Curds after the whey has been drawn off.
637 EA11, ___ Curds blocked by hand and fed into a grinding machine.
637 EA111, __ Filling the hoops with chopped curds.
637 EB12, ___ Curing room, weighing.
637 EC, _____ Loading a car with cheese for shipment.
637 EB211, __ Hundreds of delicious big cheeses curing.
637 EB22, ___ Cheese, drying.
637 EB2, ____ Cheeses of foreign make.
637 EB21, ___ Cheeses of foreign make.

Grains.

633 RA2, ____ Rye field.
633 RB2, ____ Harvesting rye with a self binder.
633 OB2, ____ Oats in sheaf.
636.6 HA11, __ Haystack, 2,000 tons.
633 OB2, ____ A country housewife grinding oats for bread, Ecuador.
633 BuA2, ___ Buckwheat in blossom on a Pennsylvania farm.

Corn.

633 CA2, ___ Cornfield at Richmond Station, Pa.
D18 PhZ2, ___ A Pennsylvania farm-yard.
633 CZ25, ___ Process of fertilization, the silks magnified.
633 CZ11, ___ Constituent parts of a bushel of corn.
633 CZ18, ___ Testing ears for germination.
633 CZ22, ___ Breeding to influence position of ear with reference to angle of declination.
633 CB215, __ Ear, section, and kernels.
633 CB211, __ Kansas corn stalks.
633 CB21, ___ Corn and pumpkins, Berkshire Hills, Mass.

AGRICULTURE—Continued.

633 CB26, ____ Corn binder at work.
633 CB212, ___ Corn in shock.
633 CA21, ____ Field of corn in shocks.
633 CB213, ___ Pile of ears.
633 CBp, _____ Pod corn.
633 CBh, _____ Hominy corn.
633 CB214, ___ Kernels of various shapes.
633 Caz, _____ Roots of corn stalks.
633 CB219, ___ Cross and long section of ears.
633 CB218, ___ Good and poor ears.
633 CB216, ___ Ears of different forms.
---------- Genuine corn fed pork, in prairie pasture, Illinois.

Wheat.

633 WE3, ____ Bread made from common wheat and from Durum wheat.
D48 HuS11, ___ Old mill at Saltillo, Pa.
D48 HuS1, ____ Buhrstones in old mill.
D48 DiZ, _____ Old mill at Dingman's Ferry, Pa.
633 WB4, _____ Cutting wheat with cradle, Pennsylvania.
633 ---------- Hauling grain at Farmers' Union warehouse, Cal.
B7 Z, -------- Harvesting with a mower drawn by camels. Siberia.
633 WB3, _____ A 33 horse team harvester cutting, threshing and sacking wheat.
633 ---------- Grains of wheat, oats, barley and corn.
633 WE33, ____ Muffins made from Durum wheat.
633 WA1, ____ Italian wheat heads.
633 WA3, _____ Wheat field, Onigara, Md.
C2 Z3, -------- Wheat field in Egypt.
633 WCr, ____ Wheat for export at South Russia's great seaport, Odessa.
633 WBs, ____ Harvesting wheat in the Basque Province of Gulpuzcoa, Spain.
633 WCc, ____ Loading steamers with wheat from the elevators.
633 WC3, ____ Loading the great whaleback ship at the grain elevators.
633M Am, _____ Huge flour mills where grain crops are made into food, Minn.
A5 NaZ, _____ Wholesale macaroni drying in the streets of Naples, Italy.
B69 Z, -------- Women grinding at the mill, Palestine.
---------- Bread making in the court of a Syrian home, Palestine.
---------- A wind-power grist mill, Sweden.
---------- Italian Bread Peddler.
---------- Bread Man, Havana, Cuba.

Rice.

633.1 RAp, ____Delights of Oriental farming, preparing ground for rice.
633.1 RAj11, ___Overlooking the rice fields, Japan.
633.1 RA1, _____Transplanting rice shoots, Japan.
633.1 RBj, _____Among the famous rice fields, Matsubara, Japan.
633.1 RAh, _____The Paddy or rice fields, Waipahu, Hawaiian Islands.
633.1 RBc, _____Country home with paddy field and natives harvesting rice.
633.1 RBj12, ___Rice harvest—cutting the straw close to the ground.
633.1 RBj11, ___Rice harvest—homeward bound with the golden yield.
633.1 RB1, _____Shelling rice and gossiping with the neighbors, Cashmere, India.
633.1 RBj1, ____Peasant women heading rice with steel combs.
633.1M RB1, _____Large stones for hulling rice, removing chaff, Ga.
633.1 RBj13, ___Baling rice in the rice fields, Japan.
633.1 RCb1, ____Coolies unloading rice boats, Rangoon, Burma.
633.1 RCb, _____Freight handlers and the thousands of tons of rice which they have unloaded, Rangoon, Burma.
633.1M RAs, _____West Point Rice Mills, Charleston, S. C.
633.1 RC, ______A rice raft, South Sarolina.
B2 Z113, _____Eating rice with chopstieks, Japan.

Vegetables.

635 PA2, _____Potato patch.
635 BA2, _____Bean field.
633 CB21, _____Cornfield and pumpkins.
D29 Z, --------Marketing sweet potatoes, West Indies.

AGRICULTURE—Continued.

Sugars—Cane Sugar.

633.3 CAp, ____Irrigating plains and planting sugar cane, Santa Clara, Peru.
D297 Sa2, _____The Picaninnies' candy store.
633.3 CBl, ____Cutting sugar cane.
633.3 CCe, _____Hauling carloads of cane to the mills.
633.3M C, _____Unloading sugar cane at the mill.
633.3M A23, _____The grinding machine.
633.3M A24, _____Boiling coppers.
633.3 CBp, ____Harvesting sugar cane.
633.3M CCl1, ____Sweetest spot on earth—sugar levee.
A4 MbA, _____The Harbor, Marseilles, France.
D63 NeZ, _____Sugar levee, New Orleans, La.

Sugars—Maple Sugar.

D18 EaZ22, ___The big maple tree.
BT MbS8, ___Sugar maple trees, West Chester, Pa.
633.3 MB1, _____Tapping a maple tree.
633.3 MB, _____Gathering sap for maple syrup.
633.3M Am, _____Old-fashioned maple sugar making—boiling down sap.
633.3M Bm, _____Packing room in a maple sugar factory.

Sugars—Beet Sugar.

633.3M Ab1, _____Beets stored in sheds.
633.3M Ab, _____Beet pulp and juice flowing into large iron tanks.
633.3M Bb8, _____The by-product, or pulp, used for feeding stock.
633.3M Bb, _____Finished product in storehouse ready for shipment.

Cocoanut Tree and Its Use.

633.5 CoAm, ___Cocoanut palm loaded with ripened fruit.
633.5 CoA1, ____Blossom of the cocoanut palm, fruit in all stages.
633.5 CoA, _____Cocoanut palm in the white sands of Florida.
[illegible] Cocoanut grove, Lake Worth, Fla.
633.5 CoBp1, __Husking the crop, near Mayaguez, Porto Rico.
633.5 CoBp1, Preparing cocoanuts for shipment, husking, Philippine Islands.
633.5 CoBp, ___Natives in a cocoanut grove, Byamays, Porto Rico.
633.5 CoCp, ___Rafts of cocoanuts on one of the waterways of Manila, P. I.
C2 Z2, _____Village on the Nile, Egypt.
C2 Z3, _____Palms and wheat fields on the Nile, Egypt.
F14 Z, _____Street Scene, P. I.
F14 Z1, _____Filipino children outside a native school house, P. I
F14 Z12, _____Home life of the Filipinos in their thatched huts, P. I.
F14 Z13, _____Primitive carabao cart, P. I.
F14 Z11, _____Filipino children in playhouse, P. I.

Tobacco.

633.4 ToA1, ____Cultivating the plant, near Lexington, Ky.
633.4 ToAj, ____The largest field of tobacco in the world, Montpelier, Jamaica.
633.4 ToB211, __Cutting tobacco, Kentucky.
633.4 ToB2, ____A Cuban farmer cutting his tobacco.
633.4 ToB23, ___Tobacco leaves in the drying shed, May Pen, Jamaica.
633.4 ToB21, ___Drying tobacco, a typical plantation, Cuba.
633.4M ToA1, ____Tobacco market, Louisville, Ky.
633.4M ToA, _____Tobacco warehouse, Louisville, Ky.
633.4M ToBc, ____Cuban cigar makers at work in the largest factory in Havana.

Tea.

633.4 TAj1, ____A country girl of Old Japan, tea fields of Shizuoka, Japan.
633.4 TAj11, ___Tea on the uplands and rice on the lowlands, Shizuoka, Japan.
633.4 TAm, ____Ready for the harvest, Ashikubo, Japan.
633.4 TBj, _____Girls picking tea on plantation at Uji, Japan.
633.4M TBj12, __Selecting tea leaves, Japan.
633.4M TBj, _____Girls rolling tea leaves by hand, Japan.
633.4 TBj11, __Firing tea, Japan.
633.4M TBj1, ____Sifting tea, interior of a tea factory, Japan.
633.4 TCe, _____Coolies unloading tea at Hankow, China.
633.4 TZc, _____Making tea in a rich native's home, Peking, China.

AGRICULTURE—Continued.

BI ShT, ____Where Shanghai's wealthy natives pass the time, Tea House, China.
633.4 TZm, ____A tea seller in the streets of Moukden, Manchuria.

Coffee.

633.1 CA2, ____Coffee flowers and berries.
633.1 CBj, ____Gathering the coffee berries, Jamaica.
633.1 CCv, ____Pack burrows laden with coffee, Venezuela.
633.1 CA1, ____In the coffee and banana hacienda, Orizaba, Mexico.
633.1 CB11, ____Coffee picker's arrival at the mill, Guadeloupe, F. W. I.
633.1 CB12, ____Coffee pickers homeward bound, Guadeloupe, F. W. I.
633.1 CB15, ____Picking coffee in the Moschi province, East Africa.
633.1 CB14, ____Crude native method of husking coffee, Mexico.
633.1 CB1, ____Drying coffee near Cordoba, Mexico.
633.1M CBj, ____Pulping coffee in the old way, Jamaica.
633.1 CB13, ____Bronzed colored maidens assorting coffee, Nicaragua, C. A.
633.1 CC1, ____Coffee from Porto Rico, Havana Wharf, Cuba.

Cacao.

633.1 CA2, ____Clementina plantation, South America.
633.5 CB2, ____Cacao pod cut open, showing beans.
633.5 B21, ____Cacao beans curing.

Linen.

633.2 FB2, ____Flax in stacks curing in a sunny field, Belgium.
633.2 FB21, ____Preparing for spinning, Belgium.
633.2M FA23, ____Hatcheling flax, first process in making Irish linen.
633.2M FA11, ____Testing the strength of flax fiber.
633.2M FA111, ___Hanks of linen thread in a store room.
633.2M FA112, ___Winding bobbins in a linen mill.
633.2M FA113, ___Winding spools in a linen mill.
633.2M FA114, ___Unreeling spools to make the warp.
633.2M FA211, ___Starching warp on a "sizing machine" before weaving.
633.2M FA213, ___Making patterns to be used in the weaving looms.
633.2M FA212, ___Spinning the linen fabric.
633.2M FB24, ___Damask weaving room.
633.2M FA21, ____Bleaching field near linen mills, Ireland.
633.2M FB25, ____Putting the rough linen through the cropping machine.
633.2M FB9, ____Mangling the linen fabric.
633.2M FB251, ___Calendering the finished linen fabric.
633.2M FB252, ___Inspecting the finished fabric.
633.2M FB253, ___Quantities of linen fabric ready for shipment.

Wool.

D48 SpZ1, ____Old couple at door, Ephrata, Pa.
636.3 B2, ____Shearing sheep, Michigan.
636.3M Bn, ____Carding and spinning wool, Telemarken, Norway.
636.3M Ap1, ____Indian women and children sorting wool, Arequipa, Peru.
636.3M Ap2, ____Washing and drying wool, Arequipa, Peru.
D91 Z21, ____Navajo blanket weaving, Indian hut, Arizona.
D91 Z2, ____A Hopi Indian at work weaving blanket, Arizona.
A4 PaZ, ____Making Gobelin tapestry.
D91 Na4, ____Navajo women spinning and weaving, Arizona.
----------Thorough-bred Rambouillets sheep with magnificent pelts.

Cotton.

EK ZC25, ____"We's done all dis 's mornin'."
633.2 CAg, ____Cotton is King—plantation scene, Georgia.
633.2M CA, ____A southern cotton mill close to the source of raw material.
633.2 CC12, ____Awaiting their turn at the cotton gin.
633.2M CA212, ___A cotton gin where cotton is cleaned and separated.
633.2M CA211, ___Cotton from the gin, and the press where it is baled.
633.2M CA213, ___Masses of white, fluffy cotton ready for the press.
633.2 CB21, ____Weighing baled cotton before shipping to the mill.
633.2M CA214, ___Opening and feeding cotton, first process in making cloth.
633.2M CA42, ____Cotton compress.
633.2M CA3, ____The lapper room, where cotton from the feeders is cleaned and rolled.
633.2M CA31, ____The carding room.
633.2M CA32, ____The carding room.

AGRICULTURE—Continued.

633.2M CA321, ---Drawing frames, six strands are drawn into one.
633.2M CA33, ----"Slubbers," where yarn is given the first twist.
633.2M CA31, ----"Speeders," where two strands are drawn and twisted.
633.2M CA2, ----Interior of spinning room. Olympian Cotton Mill.
633.2M CA37, ----Spinning room—60,000 spindles.
633.2M CA1, -----Warping room in the great Olympian Mills.
633.2M CA35, ----Beaming frames where threads are straightened for the loom.
633.2M CA36, ----Beaming the warp to be washed and dyed.
633.2M CA11, ----Slashing or starching the warp.
633.2M CA38, ---"Slashers," where yarn is sized and selvage fed in.
633.2M CA11, ----Vast weaving room, 2,000 looms.
633.2 CCt, -----s cotton on river barges for shipment.
633.2 CC1, -----Shipping cotton from the levee near growing district.
633.2 CB2, -----Part of the four million bales, the yearly crop in Texas.
633.2M Z, -------Cotton Oil Mills, Florida.
633.2 CCa1, ----A typical cotton cart.
633.2 CC11, ----Ox team with cotton seed.
B2 Z21, ------Peasant woman weaving material for her own clothing, Japan.

Miscellaneous Weaving.

----------Drying hemp, the principal export, Cebu, Philippine Islands.
---------- -----Load of manilla hemp, Cebu, P. I.
----------Looms for fine texture hosiery, Balbriggan, Ireland.
----------A Pina Cloth weaver at Molo, near Hoilo, Philippine Islands.

Farm Animals.

ZM Sh1, ------Driving home the sheep.
ZM Sh12, -----Sheep grazing on the plains, Montana.
ZM Sh1, ------Sheep—The favorites of the flock.
ZM Sh, -------Sheep in chestnut grove.
D18 HuZ, -----Return of the flock. Sheep.
D16 HaC, -----Sheep in Keeney Park, Hartford, Conn.
ZM Sh13, -----Sheep raising among the Andes, Peru.
D18 HuZ33, ---Sheep—Feeding time.
ZM Pi, -------Pigs—A happy family.
EK ZA, -------Calf.
EK ZA51, -----Horses.

Meat.

636.2 A, -------Cattle Ranch.
636.2 A2, ------Short-horn stock near Pittsburg, Pa.
636.2 A21, -----Round up.
636.2 B1, ------Branding Cattle.
636.2 B5, ------Trail herd, watering.
636.2 C1, ------Union Stock Yards, Chicago.
636.2 C11, -----Union Stock Yards, Chicago.
636.2 C13, -----A lot of sleek steers, Stock Yards.
636.2 Cc, -----Unloading cattle from an ocean steamer. Havana, Cuba.
636.2 Cm, -----Shipping beef to Chicago market, Montana.
636.1 C2, ------Thousands of hogs, Swift's Packing House.
636.21 Ab, -----"Dropping hides," Swift's Packing House.
636.21 Ab1, ----Washing—last process in dressing beef, Swift's Packing House.
636.21 Ah, ------Scalding hogs, Swift's Packing House.
636.21 Ah1, ----Moving bench, Swift's Packing House.
636.21 Ah11, ----Splitting backbones, Swift's Packing House.
636.21 Ah12, ----Killing hogs, Swift's Packing House.
636.21 Ah13, ----Cutting up hogs, Swift's Packing House.
636.21 As, ------Removing pelts from sheep, Armour's Packing House.
636.21 As1, ----Dressing lamb for market, Swift's Packing House.
636.21 AsH, ---Sheep going to the slaughter pen, Swift's Packing House.
636.21 Bh, ------Preparing hams for market, Swift's Packing House.
636.21 Bh1, -----Cooler where thousands of hogs hang, Swift's Packing House.
636.21 B2, -----Making link sausages, Swift's packing House.
636.21 B21, -----Sausage rockers, Swift's Packing House.
636.21 B22, -----Sausage drying room, Swift's Packing House.
636.21 B4, ------Drawing off lard, Swift's Packing House.
668.1 A2, ------Great soap kettles, Swift's Packing House.

AGRICULTURE—Continued.

688.1 B2, _____Huge cakes of wool soap, Swift's Packing House.
_____Landing pigs for market, Panama City, Panama.
_____Corn fed pork in prairie pasture, Illinois.
636.2 C12, _____Greatest source of food products in the world. Chicago.

Miscelaneous.

BT Ap2, _____Apple tree killed by girdling of meadow mice.
BT Ch, _____Chestnut tree stung by seventeen year cicada.
BT Ch2, _____Chestnut twigs stung by seventeen year cicada.
BT OaS, _____Natural graft of two Scarlet Oaks.
BT OaZ1, _____Tree tumors on Oak.
BT Pe, _____Pear tree girdled by meadow mice.
BT ZG, _____Bud graft, two years old.
BT ZG1, _____Grafting—budding.
BT ZG11, _____Wedge graft.
BT ZG12, _____Wedge graft, five years old.
BT ZG13, _____Graft.
ZI Sc, _____San Jose scale on apple.

Fruits.

634 BA2, _____Blackberry.
634 StA2, _____Strawberry.
634 GrA2, _____Grapes in vineyard.
634 GrBg, _____Picking grapes.
634.1 PeA, _____Peach tree.
634.1 PeB2, _____Harvesting peaches.
634.1 PeB21, _____"Peaches," Fremont, Pa.
634.1 PlA, _____Plum tree.
634.3 BA21, _____Banana tree, Lake Worth, Fla.
634.3 BBc2, _____Harvesting bananas, Costa Rica.
634.3 BBc4, _____Laborers on a banana plantation, Cuba.
634.3 CB4, _____Picking and loading cantaloupes.
634.3 GB, _____Grape fruit.
634.3 GB1, _____Grape fruit, flower and fruit.
634.3 OA1, _____10,000 acres of orange groves, Cal.
634.3 OB1, _____Orange, flower and fruit.
634.3 OB11, _____Picking oranges, Florida.
634.3 OB12, _____Picking oranges, Cal.
634.3 OA11, _____Only a few miles from oranges to snow, Cal.
634.3 PA1, _____Pineapples growing.
634.3 PB, _____Harvesting pineapples, Florida.
BT Pl, _____Plum tree in bloom.
BT Pe2, _____Pear tree.
BT Ap1, _____Apple blossoms.
EK ZC22, _____Cherries.
BT Cg, _____Cherry, branch with fruit.
BT Cg2, _____Cherry, branch with blossoms.
BT Cg1, _____Cherry, branch with fruit.
BT Ha, _____Hawthorne, fruit and jelly.
BT P, _____Date Palm, Cal.
633.5 CoA1, _____Blossoms and fruit of cocoanut palm in all stages.
633.5 CoAm, _____Cocoanut tree laden with fruit, Malay Peninsula.
_____Picking lemons in a grove on Conca d'Oro (Golden Shell), outside Palermo, Sicily.
_____Raisin Drying Racks.
_____Riverside, Cal., Lemon Trees.

Farm Scenes.

D48 Z8, _____Sailor's ford.
A15 Ke, _____A farm-yard scene, Ireland.
BT Hi, _____Hickory tree.
D48 ReA, _____Loop of the Schuylkill, near Reading, Pa.
633.6 HA, _____Hay field, Thorndale, Pa.
633.6 HA1, _____Haying on the meadows.
633.6 HA11, _____2,000 ton hay stack, Cal.
D48 JuA, _____On the Juniata River.
D48 BuL, _____View overlooking Bucks County, Pa.
D48 AnA, _____Allegheny mountains from McGarveys.
A94 Zb, _____Zermatt, Switzerland, looking toward the Rhone valley.
A2 LaA, _____Langdale valley, England.
D48 HaA, _____Susquehanna Gap, near Harrisburg.
EK Z, _____Aunt Charlotte,

AGRICULTURE—Continued.

----	----------	Resin market, Savannah, Ga.
BT	PiL, -----	Long-leaved pine, used for turpentine.
D18	HuZ21, ---	Old cider mill, showing crusher and press, Huntingdon, Pa.
D18	StS2, ----	State College, dairy farm.

HISTORY OF TRANSPORTATION.

D18	51, -------	Penna. "A map of Penna. and the parts thereof relating to roads and inland navigation," 1791.
D18	Z21, -------	Relief Model, Transportation. One century of progress, 1792-1892.
D18	Ph711, ----	Broad Street Station, Phila. Panel, "Transportation."
D18	5, ---------	Canal. Map of canals, railroads, and stage roads in Pennsylvania, 1840.
D17	ZI, -------	" Poster of New Line Industry, issued in 1792.
D18	ZII, ------	" Pennsylvania Canal—1834 to 1853.
D18	ZI, -------	" Model of canal boat on train of cars.
D18	HoZ, ------	" Junction of State Canal and Portage R. R., Hollidaysburg, Pa., 1842.
D18	ZIII, -----	" On Canal Lock at seven miles' level. On the Juniata.
D18	PhZ6, -----	" Poster of Reliance Transportation Co., Philadelphia to Pittsburg.
D71	SdS11, - -	" Soo Canal locks.
D71	SdS, ------	" Soo Canal locks, below gates.
D18	HuY, ------	" Gorge through which old Pennsylvania canal passed, Huntingdon, Pa.
D18	MeMH, ----	" Canal at Mauch Chunk, Pa.
D18	Z412, -----	" Plane No. 6, Portage R. R., 1842.
D18	Z413, -----	" " No. 7, Portage R. R. 1835.
A95	CqY, ------	" Ship canal, Isthmus of Corinth.
----	----------	" Canal locks, Northumberland, Pa.
D18	Z5, --------	Water. Model showing primitive method of unloading vessels, 1893.
IN	BC, -------	" "First-class passenger packet," Oil Creek.
IN	BZ121, ----	" Freshet jam on Oil Creek, 1861.
IN	BCI, ------	" Early mode of transportation on Oil Creek, 1861.
IN	BCI3, -----	" Shipping oil in 1861, Oil Creek.
D18	PhG7, -----	" Cramp's Ship Yards, Philadelphia, Pa.
D18	PhG71, ----	" " " " " "
D18	PhZ61, ----	" Delaware River Ferry Boat.
D17	Z, --------	" The Lusitania, New York, 1907.
D55	HaZ, ------	" War Vessels "Massachusetts" and "Brooklyn," Hampton Roads, Va.
IM	IC125, -----	" Passing tug, showing unloaders at work.
D98	GIZ, ------	" Steamer "Ancon" behind an iceberg, Glacier Bay, Alaska.
D17	NA, -------	" War Vessels in North River, N. Y.
IN	LB12, -----	" Williamsport log boom.
D18	HuZ22, ----	" Flat boat used in crossing Raystone Branch, Huntingdon, Pa.
D18	PIA1, ------	" Confluence of Allegheny and Monongahela Rivers, Pittsburg.
B2	FuA, ------	" Fuji-San, Japan.
C2	Z21, -------	" Boats on the Nile, Egypt.
A4	MbA, ------	" The Harbor, Marseilles, France.
		" As navigation first began. A dug-out hollowed from a single log, P. I.
----	----------	" "White swan of cities," Venice, Italy.
----	----------	" Straw boats on Lake Titicaca, Peru.
----	----------	" Junk flotilla on the Pelho River, China.
----	----------	" Inflating bullock-skin boats for crossing the swift Himalayan River, Sutlej, N. India.
----	----------	
D18	NdZ, ------	Railroad. Old poster of New Castle and Frenchtown R. R. 1833.
D18	Z1, -------	" Model of the engine "Sandusky."
D18	PhZ611, ----	" Model of Baldwin Locomotive and train in 1834. Philadelphia & Columbia R. R.
D18	PhS7, -----	" Old railroad depot, Philadelphia, Pa.
D18	PhS71, ----	" Broad Street Station, Philadelphia, Pa.
D18	PhS72, ----	" Philadelphia and Reading Terminal Station, Philadelphia.
D18	HpA1, -----	" A full train on Horshoe Curve, near Altoona, Pa.
D48	HpA11, ----	" Trains climbing the Horseshoe Curve,

HISTORY OF TRANSPORTATION—Continued.

D48 RoB, _____	Railroad.	Rockville Bridge, near Harrisburg, Pa.
IN DC12, ____	"	Trains loaded with pig iron; coke ovens on left, Pittsburg.
IM IC13, _____	"	Iron ore and coke cars, Pittsburg, Pa.
D48 SdZ, _____	"	D. L. & W. R. R. Yards, Scranton, Pa.
D48 Sdy41, ____	"	On the Lackawanna, near Scranton, Pa.
IM IDB12, ____	"	Kinzua Bridge, near Bradford, Pa.
D48 SpT, _____	"	Spruce Creek Tunnels.
D49 Z, _____	"	Atlantic Refining Co. View of fifty oil cars.
D48 SpA, _____	"	Horse Shoe Curve, near Altoona, Pa.
D48 SdY4, _____	"	Nay Aug Tunnel, Scranton, Pa.
A94 Pi, _____	"	To the clouds by rail, Mt. Pilatus, Switzerland.
D48 HpA12, ___	"	Fast express rounding Horseshoe Curve.
D48 McS2, ____	"	Switch-back, Mauch Chunk, Pa.
D48 PiZ4, ____	"	Special train on B. R. & P. R. R., June 13th, '06.
D48 WaZ23, ___	"	Largest engine in U. S. passing through city.
D48 WgZ, _____	"	Landslide on P. & L. E. R. R., near Collinsburg, Pa.
D48 RnZ, _____	"	Train on B. & O. wrecked by washing away of embankment.
A95 AtZ, _____	"	Steam Street Car, Athens.
D48 Z211, _____	Vehicle.	Conestoga Wagon (six horses). Philadelphia to Pittsburg.
D48 Z2, _____	"	Stage Coach.
D48 HaA1, ____	"	Old Camel-back bridge, Harrisburg. Destroyed in 1902.
IN BC14, _____	"	Hauling oil in barrels to railroad, Oil Creek, 1860.
IA AH1, _____	"	Haying on the meadows.
D48 PhZ2, ____	"	A Pennsylvania Farmyard, Germantown, Pa.
EK ZC2, ____	"	Out to see the races.
IM IDB1, _____	"	Aerial Bridge, Duluth, Minn.
IA BC, _____	"	Picking and loading cantaloupes, near Buffalo, N. Y.
EK ZA6, _____	"	"And a little child shall lead them."
EK Z, _____	"	"Aunt Charlotte."
D98 CjK, _____	"	Bound for the Klondike, Chilkoot Pass, Alaska.
C8 DuC, _____	"	Jinrikisha, South Africa.
B2 Z2, _____	"	Selling bamboo baskets, Japan.
IA AZ12, _____	"	Harvesting with mower drawn by camels, Siberia.
A93 AnZ, _____	"	Starting out with the dog team, Belgium.
D48 HuP, _____	"	Old stage route, Pulpit Rocks, Huntingdon, Pa.
D48 HuW, ____	"	Water Street Gap, old stage route, Huntingdon, Pa.
D48 Z7, _____	"	Chimney Rock.
D98 Z11, _____	"	Dog team doing freighting, Lake Bennett, Alaska.
B2 At, _____	"	Curious tramway, Japan.
B2 Ni, _____	"	A bullock team, Japan.
B2 Zl4, _____	"	Geisha girls out in rickshaws, Japan.
B48 GaA, _____	"	Sea Street, Galle, Ceylon.
633.7 -- _____	"	Hauling grain at Farmers' Union Warehouse, Cal.
_____	"	A Russian Troika, Moscow, Russia.
_____	Goats	milked while you wait, Sicily.
_____	How	beauty takes the air, Indian "reet" or bullock carriage used by ladies of rank, Ulwar.
_____	A	Goes farmer and grand-daughter in their three-wheeled cart Zeeland, Holland.
_____	Off	for a holiday in a Jaunting Car, Ireland.
	(Various).	
IN BCr, _____	Methods.	Loading tank cars with crude oil by gravity.
IN BC11, _____	"	Carrying oil with a neck-yoke, Oil Creek, 1860.
IN BC15, ____	"	Tank cars for shipping refined oil.
IN BCp, _____	"	Oil pipe line, Kane, Pa.
IN CA14, _____	"	Loading cage with car of coal at bottom of shaft.
IN CA121, ___	"	Entrance to coal mine. 1903.
IN CBB13, ___	"	Coal storage, Plainfield, N. J. Capacity 100,000 tons.
IM IC124, _____	"	Great hoists unloading vessels, Conneaut, Ohio.
IM IB, _____	"	Plant of the Blast Furnace, Pittsburg, Pa.
D48 PiY1, _____	"	Monongahela Incline, Pittsburg, Pa.
D48 McM, _____	"	Mauch Chunk, Pa. Mt. Pisgah Plane, 2,341 ft. long.
D48 Z, _____	"	Cable Ferry.
IM SDB, _____	"	Steel Viaduct over Des Moines River, C. & N. W. Railway.

HISTORY OF TRANSPORTATION—Continued.

(Various).

D18 HoS17, ___Methods. Piling steel beams in loading yard, Homestead, Pa.
D18 Pt1, _____ " Ground log slide, Potter County, Pa. 1901.
B1 MoZ, _____ " Water carrier, Mount Abu, India.
D29 Z, _____ " One way of marketing sweet potatoes, West Indies.
631.3 BBe2, ____ " Harvesting Bananas, Costa Rica, C. A.
D291 Z, _____ " Laborers on a Banana Plantation, Cuba.
B19 SeZ, _____ " Family of a Korean Peasant, Seoul, Korea.
D292 Z, _____ " Milk delivery in Jamaica.
A8 ByZ, _____ " Ski runners on Lake Bygdin, Jotunheim Region, Norway.
C2 CiZ, _____ " Camel, near the Sphinx, Egypt.
IN DCI3, _____ " Dumping coal into a car.
D298 Sa3, _____ " Coaling, St. Lucia, B. W. I.
B2 MaZ, _____ " Hauling timbers for temple repairs, Mara, Japan.
B2 Z1, _____ " Coolies carrying heavy timbers through streets, Japan.
B2 Z11, _____ " Little Japanese girls with babies on their backs, Japan.
C2 CaZ, _____ " "Ships of the Desert" passing tombs of moslem rulers, Cairo, Egypt.
F11 Z13, _____ " Primitive carabao cart, P. I.
A5 CbZ, _____ " Marble quarries, Italy.
722.8 At, _____ " Near a temple, Greece.
ZM Li, _____ " Llama pack-train, South America.
_____ " Elephants in the timber yard, hauling and lifting, India.

Bridges and Roads.

D18 PiB7, _____Bridge of Sighs, Pittsburg, Pa.
D18 Z, _____Cable Ferry.
D18 RoB, _____Rockville Bridge, near Harrisburg, Pa.
D18 RoB1, ____ " " " " "
D18 PhW1, ____On the Wissahickon, Philadelphia, Pa.
D18 PhC2, ____Fairmount Park and Schuylkill River, Philadelphia.
D18 MbB, ____ Big fill on tramway, Gardeau, McKean County, Pa.
D18 HoS22, ___Great Bridge over the Monongahela, Homestead, Pa.
D18 HaA1, ___Old Camel-back bridge, Harrisburg, Pa.
D18 EpC13, ___Bridge over the Cocalico, Ephrata, Pa.
D18 JuA21, ____Bridge over the Juniata River.
D18 PhC, _____River Drive and Tunnel, Fairmount Park, Philadelphia.
D18 SpT, _____Spruce Creek Tunnels.
D18 HpA, ____Horse Shoe Curve, near Altoona, Pa.
D18 Pt2, _____Original way of making tram roads, Potter County, Pa.
D18 EpT, _____Toll Gate, Ephrata, Pa.
IM IC13, _____Iron Ore and Coke Cars, showing bridge, Pittsburg, Pa.
IM IDB11, ____Great bridge on wheels, Conneant, Ohio.
IM SDB, _____Steel viaduct over Des Moines River.
IM IDB12, ____Kinzua bridge, near Bradford, Pa.
IM iDB1, _____Aerial Bridge, Duluth, Minn.
A1 Ay, _____The Auld Brig o' Doon, Scotland.
A1 RiZ, _____Corniche Road, constructed under Napolean I, France.
A5 VeB5, ____Bridge of Sighs, Venice, Italy.
A6 BiV, _____Viscaya bridge, Bilboa, Spain.
A8 Z3, _____Loops of the Grotlid-Marok Road, Norway.
A29 CoG3, ____Conway Castle and bridge, Wales.
A7 CaM1, ___Military Road at south end of mountain, Caucasus, Russia.
A7 CaM11, ___Military Road at south end of mountain, Caucasus, Russia.
A91 LuB, _____Tunnel of Axenstrasse, Switzerland.
D88 ArR2, _____Hanging bridge, Royal Gorge, Colorado.
B2 ToB, _____Circular Bridge, Tokio, Japan.
_____London Bridge, London, England.
_____Old Weir Bridge (S), on Long Range, Joining the Lakes of Killarney, Ireland.
_____Magnificent Marble Bridge at the Imperial Palace, Peking, China.
_____Great bridge over the Elbe, Hamburg, Germany.
_____Scotland's pride, the great Forth Bridge and the Highland Kilt.
_____"Twa Brigs" over the river at Ayr, immortalized by Burns, Scotland.

HISTORY OF TRANSPORTATION—Continued.

----------	Great zigzag loops of road descending from Dyreskard Pass, west to Roldal Lake, Norway.
----------	Axenstrasse, hewn from cliffs 860 ft. above Lake Lucerne, Switzerland.

INDEX.

	Page.
Africa,	33-34
Agriculture,	77-84
Alabama,	6
Alaska,	6
Architecture,	55-57
Arizona,	6
Art,	58-62
Asia,	32-33
Australia,	34
Babylonia,	33
Beautifying America,	69-70
Bees,	77
Belgium,	31
Birds,	38-40
Botany,	35-37
Bridges and Roads,	86-87
Burma,	33
Butter,	78
Cacao,	81
California,	6-7
Canada,	5-6
Canals,	84
Caves,	50
Central America,	27
Ceylon,	33
Cheese,	78
Children of various countries,	66-67
China,	32
Coal and Coke,	71-72
Coffee,	81
Colorado,	7
Connecticut,	7
Cooking,	68-69
Corn,	78-79
Cotton,	81-82
Cuba,	27
Dairying,	77-78
Denmark,	31-32
District of Columbia,	7-8
Domestic Science,	68
Dwellings of various people,	67
Ecuador,	28
Educational Institutions,	67-68
Egypt,	33
England,	29
Europe,	28-52
Fish and Fishing,	76-77
Flowers,	36-37
Florida	8
Forestry,	74-76
Forts,	54
France,	29
Fruits,	82
Geography and Travel,	5-34
Geology,	43-50
Georgia,	8
Germany,	29
Grains,	78-79
Greece,	31
Greenland,	34
Hawaii,	34
History,	50-54
Idaho,	8
Illinois,	8-9
Indiana,	8
India,	33
Industries,	70-86
Insects,	37-38
Iowa,	9
Ireland,	29
Iron,	70-71
Italy,	29-30
Jamaica,	27
Japan,	32
Java,	34
Kentucky,	9
Kindergarten Subjects,	65-66
Korea,	32
Leather,	77
Linen,	81
Literature,	62-64
Louisiana,	9
Lumber,	73-74
Maine,	9
Malay Peninsula,	33
Mammals,	41-42
Manchuria,	32
Manual Training,	69
Maryland,	9
Massachusetts,	9-10
Meat,	82-83
Mexico,	27
Michigan,	10
Milk,	77-78
Minnesota,	10
Missouri,	10
Montana,	10
Musical Instruments,	65
Nebraska,	10
Netherlands,	31
Nevada,	10
New Hampshire,	10
New Jersey,	10
New Mexico,	10
New York,	10-12
North Carolina,	12-13
North Dakota,	13
Norway,	30-31
Ohio,	13
Oil and gas,	72-73
Oklahoma,	13
Oregon,	13
Painting,	58-60
Paper,	74
Pennsylvania,	13-25
Peru,	27-28
Philippine Islands,	34
Physical Geography,	43-50
Porto Rico,	27
Protective Coloration,	42
Railroads,	84-85
Reptiles,	40
Rice,	79
Russia,	30
Scotland,	28
Sculpture,	57-58
Sewing,	69
Siberia,	33
Sicily,	30
South Africa,	34
South America,	27-28
South Carolina,	25
South Central Africa,	34
South Dakota,	25
Spain,	30
Steel,	71
Sugar,	80
Sweden,	31

	Page.
Switzerland,	31
Syria,	33
Tea,	80-81
Tennessee,	25
Texas,	25
Tobacco,	80
Transportation,	84-87
Trees,	35
Turpentine,	76
United States,	6-26
Utah,	25
Vegetables,	79
Vehicles,	85
Venezuela,	32
Vermont,	25
Virginia,	25
Wales,	32
Washington,	25
West Indies,	32
West Virginia,	25
Wheat,	79
Wisconsin,	25
Wool,	81
Writing (Evolution of),	64
Wyoming,	25-26
Zoology,	37